

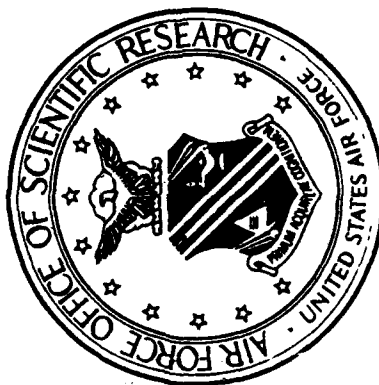
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**AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
AIR FORCE SYSTEMS COMMAND**

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**RESEARCH PROPOSAL
QUARTERLY STATUS REPORT**



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AFOSR-TR. 88-0677

JANUARY - MARCH 1988

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22a. NAME OF RESPONSIBLE INDIVIDUAL DEBRA L. TYRRELL			22b. TELEPHONE (Include Area Code) 202-767-2112		22c. OFFICE SYMBOL XOTD

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RESEARCH PROPOSAL QUARTERLY STATUS REPORT

APRIL 1988

PREPARED BY:
DEBRA TYRRELL, CHIEF
TECHNICAL DOCUMENTS SECTION
AFOSR/XOTD
BOLLING AFB, DC 20332-6448
(202) 767-4912 or AUTOVON 297-4912

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INTRODUCTION

This Research Proposal Status Report is published quarterly as of March, June, September, and December of each year. It lists all the research proposals received by the Air Force Office of Scientific Research (AFOSR) in the six month period prior to the date of this report. Normally, decisions and actions are made within six months after receiving a research proposal. The action taken (i.e. Initiated, Declined, or Withdrawn) will be listed in this Report. The report is divided into two parts: Part I is the Institution Index in which the proposals received, alphabetically by institution. Part II is the AFOSR Directorate Index in which the proposals received are listed alphabetically by Directorate and alphabetically by AFOSR Program Manager within the Directorate. Any questions regarding this report, please contact Ms. Debra Tyrrell at (202) 767-4912 or Autovon 297-4912.

PURPOSE

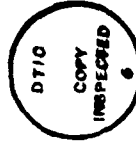
The purpose of the quarterly report is to inform other Government sponsoring agencies of the proposals received by the AFOSR and the action taken on these proposals. Users of the report should read and clearly understand that:

Declined proposals should not necessarily be considered as scientifically unacceptable since many deletions result from a lack of funds or from special programmatic emphases.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. The AFOSR is organized under the Director of Laboratories, Air Force Systems Command.

AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from unsolicited proposals originating from scientists investigating problems, involving the search for new knowledge and the expansion of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance to science, the qualification of the principal investigators, and the reasonableness of the proposed budget.



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KEY TO READING THE DATA

TITLE - The title of the research proposal

INSTITUTION - The organization, i.e., College/University; Company, etc., at which the research will be conducted.

INVESTIGATOR - The Principal Investigators proposing the research.

TYPE - N indicates a new research effort.

- R indicates a continuation of an ongoing research effort.

MONTHS - The duration of the research proposal.

RECEIVED - The month and year in which the AFOSR received the proposal.

AMOUNT - The funds requested of the AFOSR for support of the research proposal.

STATUS - A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding.

- D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR.

- BLANK SPACE = indicates the proposal is being reviewed.

- W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposers request.

PROGRAM MANAGER - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

PROPOSAL # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

INITIATED - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

START DATE - The recommended date for commencement of the research.

TOTAL AMOUNT - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation.

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BOLLING AIR FORCE BASE, DC 20332

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			Prog Mgr Maj Brian Woodruff	5027
			Visiting Prof Dr Richard Miller	5028
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PART I

REPORT DATE 04/21/89

INSTITUTION INDEX (1 JAN 88 - 31 MAR 89)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

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INSTITUTION	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ADVANCED COMPOSITE ENGINEERING, INC.	SUN	C	T	88-NA-162		HARITOS
				88-NA-163		HARITOS
				88-NE-063		ROSENSTEIN
ADVANCED DECISION SYSTEMS	GERAND	PATRICE		88-NM-298		CRJWLEY
ADVANCED FUEL RESEARCH INC.	SERIO	MICHAEL	A	88-NA-120		TISHKOFF
	SOLOMON	PETER	R	88-NA-117		TISHKOFF
				88-NA-118		TISHKOFF
				88-NA-160		TISHKOFF
ADVANCED MATERIALS TECHNOLOGY	KIM	Y	B	88-NE-106	A	WEINSTOCK
ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN	MAHADEVA	S	88-NA-155		MCMICHAEL
ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	JACK	R	88-NM-216		CRJWLEY
				88-NM-217		CRJWLEY
				88-NM-218		CRJWLEY
				88-NM-219		CRJWLEY
				88-NM-221		CRJWLEY
				88-NM-220		CRJWLEY
AEROCOM INCORP.	MUHL JR.	JOSEPH		88-NA-157		MCMICHAEL
	MUHL JR.	JOSEPH		88-NP-016		SCLOSSBER
AERODYNE RESEARCH INC	HOOKER	STEPHEN	F	88-NP-034		SCLOSSBER
	PUTNAM	ROGER	S	88-NE-088		MALLOY
	STINESPRING	CHARTER	D	88-NA-109		MCMICHAEL
	BACHALO	WILLIAM	D	88-NA-111		BIRKAN
AEROMETRICS INC				88-NM-292	A	MILLER
AEROSPACE COMPANY	FLANN	DAVID	S	88-NL-047	A	DISMUKES
AEROSPACE MEDICAL DIVISION	CANTU	CRUZ		88-NL-046	A	DISMUKES
	CULLEN	LARRY		88-NP-079		RADJSKI
AEROTECH SYSTEMS CORPORATION	PRASAD	J.	S	88-NP-034		SCLOSSBER
AIR FORCE GEOPHYSICS LABORATORY	MILLER	W.	N	88-NP-205		NACHMAN
AIR FORCE INSTITUTE OF TECHNOLOGY	PALAZOTTO	ANTHONY	B	88-NP-037		SMITH
	ROH	WON		88-XO-005	A	EDMUND
	WOLAVER	LYNN		88-NM-193	A	CRJWLEY
AIR FORCE WEAPONS LAB	BURNETTE	HOWARD	J	88-NC-087		KOERMER
AIRBORNE RESEARCH ASSOCIATES	MARKSON	RALPH	S	88-NL-134		FREGLY
ALAN S. PIKE	PIKE	ALAN	M	88-NM-193		WODRUFF
ALBION COLLEGE	MEERSCHAERT	MARK	D	88-NL-048		FREGLY
AMERICAN PSYCHOLOGICAL ASSOCIATION	GOODSTEIN	LEONARD	G	88-NE-071		WEINSTOCK
AMERICAN RESEARCH CORP. OF VIRGINIA	NITMURA	MASANOBU		88-NA-079	A	TISHKOFF
ANALATOM INC	LAUFER	GABRIEL	K	88-NA-101		MELIN
ANALYTICAL METHODS INC	NATHAN	JAMES	M	88-NA-077		MCMICHAEL
ANALYTICAL SERVICES & MATERIALS INC.	MANJALAM	S		88-NA-186		HARITOS
				88-NP-074		PRINCE
APPLIED ANALYSIS, INC.	TANG	HUANQUI	K	88-NA-187		HARITOS
APPLIED CRYSTAL ENGINEERING, INC.	KEYSER	EDDIE	E	88-NM-263		CRJWLEY
APPLIED ENGINEERING RESEARCH, INC.	BEDEMI	NABIM	E	88-NP-049	A	BARKER
APPLIED INNOVATION, INC.	DAVIDSON	JOSEPH		88-NP-100		BARKER
APPLIED MICROWAVE PLASMA CONCEPTS	SUEST	GARETH		88-NE-062		ROSENSTEIN
				88-NA-189		HARITOS
APPLIED SCIENCE, INC.	BRITO	K	K	88-NA-137		MCMICHAEL
APTECH ENGINEERING SERVICES, INC.	CIPOLLA	RUSSELL	C	88-NL-145		CERVENY
ARCHITECTURAL ENERGY CORPORATION	WORTMAN	DAVID	N			
ARGONNE NATIONAL LABORATORY	COLEMAN	ROBERT	D			

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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INSTITUTION	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
ARITHMETIKA, INC.	SABJUNGI	MARIE-LOUISE		88-NC-111		WILKES
ARIZONA STATE UNIVERSITY	WESELY	MARVIN	L	88-NL-144		CERVENY
	CHUDNOVSKY	DAVID	V	88-NM-296		CROWLEY
	BYRNES	CHRISTOPHER	I	88-NM-191	A	CROWLEY
	FERRY	DAVID	K	88-NE-121		MALLY
	FINDLER	NICHOLAS	V	88-NM-351		WAKSMAN
	S. TAYLOR	THOMAS	J	88-NM-303	A	CROWLEY
ARMY ARMAMENT RED CMD/BALLISTICS RSCH LA	MIZIOLEK	ANDRZEJ	W	88-NA-128		TISHKOFF
ARMY ENGINEER WATERWAYS EXPERIMENT STA	HUSKY	LEONARD		88-NC-163	A	KOERMER
ARTIFICIAL INTELLIGENCE RSCH INSTITUTE	BROWN	FRANK	M	88-NE-056		GILES
				88-NM-209		WAKSMAN
ASTRON RESEARCH & ENGINEERING	NAKAMURA	TAKASHI		88-NA-176	A	TISHKOFF
ATLANTIC APPLIED RESEARCH	KERN	FRED	R	88-NA-165		NACHMAN
ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN	ROSS	N	88-NC-085	A	KOERMER
	NEHRKORN	THOMAS		88-NC-076		KOERMER
ATOM SCIENCES, INC.	THOMARD	NORBERT		88-NC-095		WILKES
				88-NP-058		SCHLOSSBER
CDM CORPORATION	CARSON	SUSAN	D	88-NC-114		WODARCZYK
CK DYNAMICS, INC	WATKINS	THOMAS	V	88-NL-133		FREGLY
BATTELLE PACIFIC NORTHWEST LABORATORIES	WILLIFORD	R	E	88-NA-145		HARITOS
DELTRAN ASSOCIATES INC	SIMO	CONSTANCE		88-NC-089		BURGGRAF
				88-NC-090		BURGGRAF
				88-NC-091		BURGGRAF
				88-NE-098		WEINSTOCK
BELTRAN INC	SIMO	CONSTANCE		88-NA-135		WJ
BERKELEY APPLIED SCIENCE & ENGR.	PANAMANDER	M		88-NL-070	D	BERRY
BOMED MEDICAL MANUFACTURING, LTD.	SRAMEK	THOMAS	B	88-NC-136		ULRICH
BOEING CO	LUHMAN	MURAD	S	88-NM-169		WODRUFF
BOSTON UNIVERSITY	. TAQUU	BALDASSARE DI		88-NP-094	D	SCHLOSSBER
	BARTOLO	JAMES	T	88-NL-065		TANGNEY
	TODD	SO-YSIANG		88-NM-293	A	NACHMAN
BOWLING GREEN UNIVERSITY	CHOJ	BRYANT	E	88-NC-143		MATUSZKO
BRIGHAM YOUNG UNIVERSITY	ROSSITER	DONALD	G	88-NE-070		WEINSTOCK
BRIMROSE CORP. OF AMERICA	ROSEMEIER	JOSEPH		88-NE-079		WITT
		FRED	E	88-NM-192		NACHMAN
BROOKHAVEN NATIONAL LABORATORY	POLLAK	FORD	H	88-NE-127		MALLOY
BROOKLYN COLLEGE OF CUNY	ESNER	M. YATTI	F	88-NL-074		BERRY
BROWN UNIVERSITY	MARICQ	ALLAN	E	88-NC-108		DAVIS
	PEARSON	JOHM		88-NM-301		CROWLEY
	BURKE	JAMES	M	88-NP-085		BARKER
BURKE TECHNOLOGIES INC.	CARROLL	WALLACE	V	88-NM-258		CROWLEY
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE	RAVI	E	88-NL-132		REYRY
		DAVID		88-NM-247	A	CROWLEY
CVD EQUIPMENT CORPORATION	CHAVORAN	MARTHA		88-NE-092		MALLOY
CALIFORNIA ADVANCED INTEGRATION	WEBSTER	DAVID	W	88-NM-262		CROWLEY
	COHEN	DONALD	S	88-NM-280		CROWLEY
CALIFORNIA INSTITUTE OF TECHNOLOGY	FOX	GEORGEY	C	88-NM-168	A	NACHMAN
	MCLEICE	ROBERT	J	88-NM-270		NACHMAN
				88-NM-327	A	WILLER

INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
CARNEGIE-MELLON UNIVERSITY	YARIV	AMNON			88-NE-131		GILES
CASE WESTERN RESERVE UNIVERSITY	HRUSA	WILLIAM			88-NP-035	A	SCHLOSSBER
CENTER FOR REMOTE SENSING	SHREVE	STEVEN		E	88-NM-359	A	NACHMAN
	WELSCH	GERHARD			88-NM-302		CROWLEY
	SANGULY	SUMAN			89-NE-113		ROSENSTEIN
					88-NA-080		NACHMAN
					88-NC-083		KJERMER
					88-NC-084		KJERMER
					89-NE-053		GILES
					88-NE-055		GILES
					88-NP-052		BARKER
CENTRO DI CULTURA SCIENTIFICO A VOLTA	CASATI	GIULIO			88-NM-189		NACHMAN
CERAMICS PROCESS SYSTEMS	HODGE	JAMES		D	89-NE-066	A	MARITOS
CHARLES EVANS & ASSOC.	HERMAN	MICHAEL		H	88-NE-080		WITT
CHEMICAL DYNAMICS CORPORATION	MURTHY	C		S	98-NE-091	A	MALLOY
	SWAMINATHAN	P		K	88-NC-159	A	DAVIS
CHIRP CORPORATION	ALTES	RICHARD		A	88-NL-135		FREGLY
CITY COLLEGE - CUNY	BROWN	MARK		W	88-NM-359		WODORUFF
CLARKSON UNIVERSITY	KOCH	MARK		L	88-NE-039		GILES
	THEIS	THOMAS		R	98-NL-117		CERVEY
COLLEGE OF WILLIAM AND MARY	SHIER	DOUGLAS		R	88-NM-368		WODORUFF
COLORADO SCHOOL OF MINES	MAGIN	FRANK		G	88-NM-356		NACHMAN
COLORADO STATE UNIVERSITY	REITER	ELMAR		R	88-NC-152		KJERMER
	ROCCA	JORGE		J	88-NP-110	A	SCHLOSSBER
	SRIVASTAVA	JAYA		B	88-NM-167	A	WODORUFF
COLUMBIA UNIVERSITY	EISENTHAL	KENNETH		B	88-NC-073		BURGRAF
COMBUSTION INSTITUTE	PALMER	HOWARD		B	88-NA-150		BIRKAN
COMPENSABLE SOLICITATION	IDENTIFIED	YET			88-NL-060	A	FREGLY
COMTEK CORP	SM	GEORGE		C	88-NA-135		MCMICHAEL
COMPUTATIONAL MECHANICS CONSULTANTS INC	MANHARDT	P		D	88-NA-089		MCMICHAEL
COMPUTER & INFORMATION SCIENCES, INC.	VIDE	JOSEPH		J	88-NM-250		CROWLEY
COMPUTER AIDED PLAN & SCHEDULE INC.	LOFGREN	CHRISTOPHER		B	88-NM-293		CROWLEY
COMPUTER COMMAND & CONTROL COMPANY	LOCK	EVAN		B	88-NM-286	A	CROWLEY
COMPUTER PERFECTION UNLIMITED (CPU)	WEISINGER	RICHARD		B	88-NM-229		CROWLEY
CONCEPT ANALYSIS CORPORATION	GLANCE	PAUL		H	88-NE-064		ROSENSTEIN
CONCEPT TECHNOLOGY	BESSEL	DAVID		H	88-NM-252		CROWLEY
CONTINUUM DYNAMICS, INC.	PILANIN	ALAN		J	98-NA-196		TISHKOFF
CORIELL INSTITUTE FOR MEDICAL RESEARCH	GILAD	GAD		M	88-NL-165		SERRY
CORNELL UNIVERSITY	ALEXANDER	MARTIN		J	98-NL-109		CERVEY
	WEALEY	TIMOTHY		J	98-NM-174	A	NACHMAN
	HOUSTON	PAUL		L	88-NC-119		WODARCZYK
	STUART	JOHN		L	88-NA-110		NACHMAN
	OVINSKY	ARKADY		S	88-NA-094		MCMICHAEL
	RAVI	K		V	88-NA-116		MARITOS
	RAVIED	K		V	89-NE-093		MALLOY
	DOLGAY, JR	JOSEPH		F	98-NE-059		ROSENSTEIN
	HOLT	ALBERT		C	88-NA-172		WJ
	B. DEACON	DAVID		A	98-NE-107		ROSENSTEIN
					98-NP-059		SCHLOSSBER

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
DECISION RESEARCH		O'KEEF	ANTHONY		88-NP-112	A	SCHLOSSBER
DECISION SCIENCE CONSORTIUM INC		MACREGOR	DONALD		88-NL-077		FREGLY
		LASKEY	KATHRYN	B	88-NM-287		CROWLEY
		LEDD	JOHN		88-NL-137		FREGLY
DEPT OF THE INTERIOR		CHAMBERLAIN	PETER		88-NA-156	A	WJ
DEVICE RESEARCH INSTITUTE		WANG	CHENG	T	88-NM-282		CROWLEY
DIAMOND MATERIAL INSTITUTE, INC.		KOSA	RICHARD		88-NE-103		MALLOY
DOMLAND-BACH CORPORATION		SELEPIGGE	SCOTT		88-NA-190		TISHKOFF
DUKE UNIVERSITY		DIGIULIO	RICHARD	T	88-NL-149		CERVENY
		MADEY	JOHN M.	J	88-NP-092	A	SCHLOSSBER
		RECKHOW	JOHN	M	88-NP-095	A	SCHLOSSBER
EAGLE RESEARCH GROUP, INC.		SCHAEFFER	KENNETH	H	88-NL-157		CERVENY
EASTERN SPACE & MISSILE CENTER		SQUIRE	DAVID	S	88-NM-276		NACHMAN
ECCODYNICS RESEARCH ASSOCIATION INC		KENNEDY	ROBERT	K	88-NP-072		PRINCE
		ROACHE	MICK		88-NP-036	A	SMITH
			PATRICK	J	88-NA-097		HELIN
					88-NM-166	A	CROWLEY
EDGEWISE SENSOR PRODUCTS		CAROME	EDWARD	F	88-NP-070		PRINCE
EIDETICS INTERNATIONAL INC.		MALCOLM	GERALD	N	88-NA-174		HELIN
ELECTRO MAGNETIC APPLICATIONS INC		NG	POM	H	88-NP-050		RADOSKI
ELECTRO-KINETIC SYSTEMS, INC.		LEGEMAN	BURTON	E	88-NE-109		WEINSTOCK
ELECTRO-OPTIK CORPORATION		CHAY	WILLIAM	S	88-NE-093		MALLOY
ELECTRONIC DESIGN CONSULTANT		LEPPERSON	PETER		88-NE-076		WITT
ENERGY OPTICS, INC.		COX	TIMOTHY		88-NP-089		SCHLOSSBER
ENERGY SCIENCE LABORATORIES, INC.		CLINTON	JAMES		88-NE-101		WEINSTOCK
ENGINEERING ANALYSIS, INC.		TATUM	FRANK	B	88-NA-078		MCMICHAEL
ENGINEERING DEVELOPMENT LAB. INC.		CAMBELL	RICHARD	E	88-NA-139		MCMICHAEL
ENRICO LEVI, INC.		WHANG	MICHAEL	H	88-NP-054		RADOSKI
ENTROPIC SPEECH INC.		SHORE	JOHN		88-NM-235		CROWLEY
ENVIRO SYSTEMS, INC.		SUSATT	RICHARD	H	88-NL-103		CERVENY
ESSEX CORPORATION		KENNEDY	ROBERT	S	88-NL-125		TANGNEY
					88-NL-126		TANGNEY
					88-NL-128		BERRY
EUROPEAN OFFICE OF AERO RSCH AND DEVELOP		SMITH, LT COL.	USAF	K	88-NE-051		MALLOY
EXETER UNIVERSITY		HALL	PHILIP		88-NM-355	A	NACHMAN
EXTOTECH INC.		MOYLE	IAN	M	88-NA-105		HELIN
					88-NA-106		HELIN
FACC PERCEPTONICS, INC.		BARNETT	ROGER	J	88-NM-261		CROWLEY
		KHALSA	DHARMA SINGH		88-NM-260		CROWLEY
FANTOZZI COMPANY, INC.		FANTOZZI	MARK	M	88-NA-177		NACHMAN
FED. OF AMERICAN SOC. FOR EXPMTL BIOLOGY		KRAJUS	ROBERT	M	88-NL-081	D	CERVENY
FELTECH		ELIAS	LUIS		88-NP-084		BARKER
FLORIDA A&M UNIVERSITY		JONES	HERBERT	W	88-NC-123		DAVIS
FLORIDA ATLANTIC UNIVERSITY		FERNANDEZ	EDUARDO	B	88-NM-176		WAKSMAN
FLORIDA INTERNATIONAL UNIVERSITY		BARRIO-LAGE	GLADYS		88-NL-114		CERVENY
		PARSONS	FRANCES		88-NL-113		CERVENY
FLORIDA STATE UNIVERSITY		WEINER	ALLAN	M	88-NC-093		KOERMER
FLOW INDUSTRIES INC		JCU	WEN-HUEI		88-NA-091		MCMICHAEL
		MENDY	SURESH		88-NA-073		TISHKOFF

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FLUID PHYSICS INC.	TRACI	RICHARD	M	88-NA-154		MCMICHAEL
FORMAL SYSTEMS DESIGN & DEVELOPMENT INC	STUCKWISCH	STEVE		88-NA-096		MCMICHAEL
FOSTER-MILLER INC	DRUY	MARK	A	88-NC-069	A	ULRICH
				88-NC-078	A	ULRICH
FOUR DIMENSIONS, INC	LUSIGNEA	RICHARD	W	88-NC-071		ULRICH
GENERAL ANALYTICS CORPORATION	CHEN	JAMES		88-NC-085		MALLOY
	ADAMIAN	G		88-NA-081		MCMICHAEL
GENESIS COMPUTER PRODUCTS INC	SARAFYAN	D.		88-NA-235		CROWLEY
GEORGE WATSON UNIVERSITY	KELLY	WALTER		88-NA-082		BIRKAN
	GERTLER	JANIS		88-NA-338		CROWLEY
	NASH	STEPHEN		88-NA-202		MILLER
GEORGETOWN UNIVERSITY	SMULSON	MARK	E	88-NA-153		CERVENY
	DELEVIE	ROBERT		88-NC-115		WILKES
GEORGIA TECH RESEARCH CORPORATION	FLANERY	M	R	88-NC-105	A	KELLEY
GEORGIA UNIV RESEARCH FOUNDATION, INC	BRUCKNER	JAMES	V	88-NA-106		CERVENY
	KING	R. BRUCE		88-NC-100		MATUSZKO
GORDON RESEARCH CONFERENCES INC	CRUICKSHANK	ALEXANDER	M	88-NA-038		KELLEY
	GARSCADEN	ALAN		88-NA-096	A	KELLEY
	OTYER	HANS	G	88-NA-295	A	NACHMAN
HC CHEMICAL RESEARCH & SERVICE CORP.	MSU	MING-TA	S	88-NC-160		MATUSZKO
HNC, USC (HECHT-NIELSEN NEUROCOMPUTER)	PALMER	DOUGLAS	A	88-NA-237		CROWLEY
HARBOR BRANCH OCEANOGRAPHIC INST., INC.	LAUGHLIN, JR.	ROY	B	88-NA-104		CERVENY
HARRIS CORPORATION	BERNSTEIN	DENNIS	S	88-NA-315		CROWLEY
	RICHTER	STEPHEN		88-NA-361		CROWLEY
	GABRIELSE	GERALD		88-NA-042	A	PRINCE
HARVARD UNIVERSITY	GROZ	BARBARA	J	88-NA-333	A	WAKSMAN
	MECHAM	HARVEY	D	88-NE-054		GILES
HARVEY MECHAM ASSOCIATES	ELWELL	DENNIS	F	88-NE-039		MALLOY
HUGHES RESEARCH LABORATORIES	ZEMANY	PAUL	D	88-NA-255		CROWLEY
HYESON (HELEN) CHU ZEMANY	BARBER	JOHN	P	88-NA-164		NACHMAN
IAP RESEARCH, INC.	D'NEILL	HUGH	J	88-NA-084	D	CERVENY
IIT RESEARCH INSTITUTE	PHILIPS	DAVE	A	88-NA-051		BARBER
IRT CORPORATION	BROOKES	JOHN	C	88-NA-265		CROWLEY
IMAGE CONVERSION DEVICES	ROGERS	CYNTHIA		88-NA-140		FREGLY
IMPERIAL CONS. & ENGR. CO., INC.	GANNON	DENNIS	B	88-NA-350		WAKSMAN
INDIANA UNIVERSITY FOUNDATION	WATSON	CHARLES	S	88-NA-059	A	TANGNEY
INDUSTRIAL DETECTION TECHNOLOGY CORP.	LOWENSTINE	MARK	R	88-NE-099		WEINSTOCK
INDUSTRIAL QUALITY INC	JONES	THOMAS	S	88-NE-058		ROSENSTEIN
INFORMATION & CONTROL SYSTEMS INC.	MALYD	NESIM		88-NA-231		CROWLEY
INSTITUTE OF ELECTRL & ELECTRONIC ENG INC	COSTELLO JR.	DANIEL	J	88-NA-342		CROWLEY
INT'L BUSINESS MACHINE CORP	MCCLELLAND	GARY	M	88-NA-072		BURGGRAPH
INT'L META SYSTEMS INC.	THAMES	JOSEPH	M	88-NA-228		CROWLEY
				88-NA-232		CROWLEY
				88-NA-239		CROWLEY
				88-NA-240		CROWLEY
				88-NA-246		CROWLEY
				88-NA-234		CROWLEY
				88-NA-178		NACHMAN
INTEGRATED SYSTEMS, INC.	KOSJUT	ROBERT	L	88-NA-193		NACHMAN
INTELLIGENT SIGNAL PROCESSING	HONG	JAE				

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INTELLIGENT SYSTEMS INTEGRATION INC.	LU	Z		93-NA-109		MCMICHAEL
	ROSS	TIMOTHY	J	93-NA-122		HARITOS
				98-NE-060		RJSENSTEIN
				93-NM-299		CROWLEY
ICNA COLLEGE	YAGER	CONALD		98-NM-330	A	WAKSMAN
IRVINE SCIENCE ASSOCIATES	WESSEL	RAVAK	J	98-NP-093		BARKER
J. A. WOOLLAM COMPANY	WOOLLAM	JOHN	A	88-NE-079		WITT
				88-NE-089		WALLOV
				88-NE-090		WALLOV
JAYCOR	GLADD	N	T	88-NP-105	A	BARKER
JET PROPULSION LABORATORY	BELLAN	JOSETTE		98-NA-209		TISHKOFF
JOHNS HOPKINS UNIVERSITY	KRUSE	GEROME		88-NE-132		RJSENSTEIN
	SEJNOWSKI	TERRENCE	J	88-NE-133	A	GILES
	SOLD	VICTOR		88-NM-171		CROWLEY
	OLIXER	V.	I	88-NM-243		CROWLEY
JOSEPH TECHNOLOGY CORPORATION	WIXOM	MICHAEL	R	88-NC-098		MATUSZKO
KMS FUSION INC	GAFFNEY	EDWARD	S	88-NA-170		BOYCE
KTECH CORPORATION	KLEIN	GARY	A	88-NL-136		FREGLY
KLEIN ASSOCIATES, INC.	MCCANN	MICHAEL	P	98-NP-075		SCHLOSSER
KUJ ASSOCIATES	CRAVENS	DENNIS	J	88-NP-086		PRINCE
LRM ASSOCIATES, INC.	LOOS	HENDRICJS	S	88-NC-094		KOERMER
LAGUNA RESEARCH LAB	BLUCH	SYLVAN		98-NP-062		SCHLOSSER
LARGO SCIENTIFIC INC.	SCHUECHT	RICHARD		88-NP-038	A	SCHLOSSER
LASER GENICS CORPORATION	PAPURT	DAVID	M	98-NP-076		SCHLOSSER
LASER METRIC SYSTEMS, INC.	BROWN	DAVID	C	88-NP-077		SCHLOSSER
LASER TECHNOLOGY ASSOCIATES	SCHUECHT	RICHARD		88-NC-077		ULRICH
LASERGENICS CORPORATION	NDWAK	PAUL	F	98-NP-056		SMITH
LAWRENCE LIVERMORE LAB (CALIF UNIV)	STANKER	LARRY	H	83-NL-175		CERVENY
LEHIGH UNIVERSITY	SMITH JR	CHARLES	R	88-NA-203		MCMICHAEL
LOCK ENTERPRISES	LOCHMILLER	ALAN	M	88-NA-180		BIRKAN
LOCKHEED CALIFORNIA COMPANY	LONG	LYLE	N	88-NA-124		MCMICHAEL
LOCKHEED MISSILES & SPACE CO INC	WANG	S	C	98-NE-122	A	WALLOV
LOS ALAMOS SCIENTIFIC LAB (DOE)	SERAIN	RICHARD		88-NP-109		SMITH
LOS ALAMOS TECHNICAL ASSOCIATES INC	VOGEL	HERBERT		98-NP-048		SMITH
LOUISIANA STATE UNIVERSITY	ROY	DIPAK		88-NL-156		CERVENY
LOYOLA UNIVERSITY	SHOFNER	WILLIAM	P	88-NL-169		TANGNEY
MEGA RESEARCH INC.	WU	FRM-RONG		98-NA-152		MCMICHAEL
MAINSTREAM ENGINEERING CORPORATION	BUCKMAN	JAY	A	98-NA-140		NACHMAN
				98-NM-254		CROWLEY
MARTINGALE RESEARCH CORPORATION	DAMES	ROBERT	L	98-NM-241		CROWLEY
				88-NM-242		CROWLEY
				88-NM-253		CROWLEY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CHANG-DIAZ	F	R	98-NA-161	A	BIRKAN
	CLEARY	MICHAEL	P	98-NA-133		HARITOS
	FAY	JAMES	A	88-NC-153		KOERMER
	LANDAHL	MARTEN	T	88-NA-139	D	TISHKOFF
	LATANISION	R	M	83-NE-112		RJSENSTEIN
	PRITCHARD	DAVID	E	98-NP-097	A	KELLEY
	SEYFRITH	DIETMAR		98-NC-103		MATUSZKO

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MASSACHUSETTS TECHNOLOGICAL LABORATORY	THOMPSON	CARL	V		88-NE-042	A	MALLOY
MATERIALS RESEARCH SOCIETY	CHANG	J	T		88-NC-075		KOERMER
	ADAMS	W	M		88-NC-166		ULRICH
	POPE	LARRY	E		88-NC-146	A	BURGRAF
	SKALNY	JAN			88-NE-129		ROSENSTEIN
	WEITZ	DAVID	A		89-NC-147		ULRICH
MATERIALS SCIENCES CORPORATION	CHATTERJEE	SALENDRA	N		89-NA-123		HARITOS
MCSILL UNIVERSITY	PAIDOUSSIS	MICHAEL	P		88-NA-130		MCMICHAEL
MEDICAL COLLEGE OF WISCONSIN	FELLS	JANIS	T		88-NL-089		CERVENY
MEMPHIS STATE UNIVERSITY	KLAINNE	STEPHEN	J		88-NL-099		CERVENY
MENTOR TECHNOLOGIES, INC.	SELZER	MITCHELL	R		88-NL-121		BERRY
MESOSCALE ENVIRON SIMUL & OPER INC	KARYAMPUDI	V. MOHAN			88-NC-070		KOERMER
METAMATIX INC.	MINCH	RICHARD	B		88-NA-185		HARITOS
	WILEMSKI	GERALD			88-NA-182		TISHKOFF
	WILLIAMS	WYMAN			88-NE-094		WITT
METRI WAVE INC.	BOYD	STEPHEN	A		88-NL-102		CERVENY
MICHIGAN STATE UNIVERSITY	ALFANTIS	ELIAS	C		88-NE-057		ROSENSTEIN
MICROTECHNOLOGICAL UNIVERSITY	COON	DARYL	E		88-NE-086		MALLOY
MICROTRONICS ASSOCIATES, INC.	FORSYTHE	RONALD	E		88-NE-096		WITT
MILIMETER WAVE TECHNOLOGY, INC.	EISLER	ROBERT	D		88-NA-121		HARITOS
MISSION RESEARCH CORP	SOLEN	BRUCE	F		88-NP-107	A	BARKER
	STONE	STEVE			88-NP-065		PRINCE
MONTEREY TECHNOLOGIES, INC.	HENNESSY	ROBERT	T		88-NL-124		TAGNEY
MULTISPEC CORPORATION	SHEBY	DAVID	M		88-NP-073		PRINCE
MY BUSINESS INC.	YEE	D.			88-NM-256		CRIMLEY
NQAA - R AND D ATMOSPHERIC PROGRAMS	HECHT	ALAN	D		88-NC-154	A	KOERMER
NAVOPTICS INC.	BAMFORD	GARY			88-NE-104		MALLOY
NATIONAL ACADEMY OF SCIENCES	FLATTEAU	PAMELA	E		88-NL-080	D	CERVENY
NATIONAL BUREAU OF STANDARDS	MARTINIS	JOHN			88-NE-100		WEINSTOCK
NATIONAL CTR FOR TOXICOLOGICAL RESEARCH	CHEN	JAMES	J		88-NL-141		CERVENY
	SAYLOR	DAVID	W		88-NL-142		CERVENY
	KODELL	RALPH	L		88-NL-143		CERVENY
	MATTISON	DONALD	R		88-NL-154		CERVENY
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	KROEHL	HERBERT	W		88-NC-139	A	KOERMER
NATIONAL SCIENCE FOUNDATION	FRODYMA	MICHAEL			88-NE-067	A	WEINSTOCK
NAVAL RESEARCH LABORATORY	GRIFFIN	RICHARD	D		88-NE-117	A	GILES
NELSON ASSOCIATES	NELSON	NORMAN	W		88-NM-285		CRIMLEY
NEW JERSEY ADVANCED TECHNOLOGY	KLAPPHOLZ	AARON	D		88-NM-239		CRIMLEY
NEW MEXICO STATE UNIVERSITY	RAYSON	GARY	D		88-NC-165	D	BURGRAF
	WILKS	YORICK			88-NM-300		WAKSMAN
NEW YORK UNIVERSITY	SPEERLING	GEORGE			88-NL-083		FRESLEY
NEW YORK UNIVERSITY MEDICAL CENTER	LLINAS	RODOLFO	R		88-NL-055		BERRY
NIELSEN ENGINEERING AND RESEARCH CO	CHILDS	ROBERT	E		88-NA-093		MCMICHAEL
	NIXON	DAVID			88-NA-092	A	MCMICHAEL
NORTH CAROLINA STATE UNIVERSITY	SEDAIR	SALAH	M		88-NE-035	A	MALLOY
	PLEMMONS	ROBERT	J		88-NM-207	A	MILLER
NORTH TEXAS STATE UNIVERSITY	DICKSON	KENNETH	L		88-NL-120		CERVENY
	MCDANIEL	FLOYD	D		88-NE-120		MALLOY
	SEILER	DAVID	G		88-NE-115		MALLOY

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NORTHEAST LOUISIANA UNIVERSITY	BENSON	WILLIAM	M	88-NL-092		CERVENY
	CHAKRAVARTI	NILOTPAL		88-NM-323		WILLER
	DELISI	DONALD	P	88-NC-158		KOERMER
	FRASER	ROBERT	S	88-NA-107		MCWICHAEL
NORTHWEST RESEARCH ASSOCIATES, INC.	HUDD	JOSEPH	T	88-NC-101		WILKES
	JEROME	JOSEPH	W	88-NM-274		NACHMAN
	MARKS	TOBIV	J	88-NC-065	A	ULRICH
	MATALON	M.		88-NM-205		NACHMAN
NORTHWESTERN UNIVERSITY	RATNER	MARK	A	83-NC-133		WILKES
	SHAH	SURENDRA	P	88-NA-167		WJ
	SKCHIAN	LEON		88-NP-387		PRINCE
	MITCHELL	TOBY	J	88-NM-170		WIDORUFF
OPTIMA SYSTEMS, INC.	SHUGART	LEE	R	86-NL-163		CERVENY
	TONN	BRUCE		88-NL-057		FREGLY
	KREITZBERG	CARL	W	88-NC-162		KOERMER
	MILLER	TERRY	A	88-NC-124		DAVIS
OAK RIDGE NATIONAL LAB	TARR	MELINDA	J	88-NL-069		CERVENY
	PURROWS	GEORGE	E	88-NL-088	A	CERVENY
	QUINN	JARUS	W	88-NP-043	A	SCLOSSBER
				88-NP-044	A	SCLOSSBER
OFFICE OF NAVAL RESEARCH	CLAS	ANORZEJ		88-NM-360	D	NACHMAN
	MACK	T	E	88-NA-195		HARITOS
	BARDINA	JORGE		88-NA-094		MCWICHAEL
				88-NA-085		MCWICHAEL
OHIO STATE UNIVERSITY	HONG	S	K	88-NA-083		MCWICHAEL
	PAL	NICK		88-NP-071		PRINCE
	SIMANONOK	KARL		88-NL-131		TANGNEY
	KOLAWA	ADAM		88-NA-153		MCWICHAEL
PENNSYLVANIA STATE UNIVERSITY	BONA	JERRY	L	88-NM-365		NACHMAN
	ALLCOCK	HARRY	R	88-NC-121		MATUSZKO
	DULIKRAVICH	GEORGE	S	88-NA-197		NACHMAN
				88-NA-208		MCWICHAEL
PAL CONSULTANTS, INC.	HAGER	WILLIAM	W	88-NA-324	A	MILLER
	IRWIN	MARY JANE		88-NE-109	A	GILES
	PRATT	JAMES	R	88-NL-095		CERVENY
	ROY	RUSTUM		88-NC-097		ULRICH
PAROSUS SYSTEMS INC.	TOBIYAMA	KEN		88-NC-145		KOERMER
				88-NC-148		KOERMER
				88-NE-118		MALLOY
				88-NL-123		CERVENY
PHENIX DIGITAL CORPORATION	VEDAM	CHARLES		88-NE-052		GILES
	COLBERT	DONALD	A	88-NE-052		GILES
	BROWN	JAMES	E	88-NM-279		CROWLEY
	KEAT	WALTER	V	88-NE-074	A	WEINSTOCK
PHOTON RESEARCH ASSOCIATES INC.	PODVEY	BRUCE	J	88-NC-086		KOERMER
	WEST	MARK		88-NA-133		HELIN
	CAYLOR	MARK	G	88-NA-119		TISHKOFF
	ALLEN	ROBERT	M	88-NP-055		KELLEY
PHYSICAL DYNAMIC INC	KRECH	PAULINS	T	88-NA-159		TISHKOFF
				88-NP-031		RAKER
PHYSICAL RESEARCH INC.						
PHYSICAL SCIENCES INC						
PHYSICAL SCIENCES INC.						

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PLEX SYSTEMS INC.	COLEMAN	RONALD			98-NM-234		CROWLEY
POLYTECHNIC INSTITUTE OF NEW YORK	GERBI	DIANA		J	88-NC-150	A	ULRICH
POTOMAC PHOTONICS INC.	CHRISTENSEN	C. PAUL			88-NP-093		SCHLOSSBER
POTOMAS SYNERGETIC INC. (PSI)	CORCORAN	V.		J	98-NP-063		PRINCE
PRECISION COMBUSTION, INC.	PFEFFERLE	WILLIAM		C	88-NA-181		TISHKOFF
PRINCETON SCIENTIFIC ENTERPRISE, INC.	BLAIR	DAVID		W	88-NA-175		TISHKOFF
PRINCETON UNIVERSITY	ANDERSON	PHILLIP		W	88-NE-114	A	WEINSTOCK
	BERNASEK	STEVEN		L	88-NC-137	A	BURGGRAF
	BOGDONOFF	SEYMOUR		M	88-NA-148		MCMICHAEL
	DICKINSON	BRADLEY		W	88-NM-313	A	NACHMAN
	KUNG	SUN-YUAN			88-NE-040		GILES
	LUSTIG	IRVIN		M	88-NM-195		MILLER
	STEELE	J		C	88-NM-370	A	WODORUFF
	TSUI	D.			88-NE-134		WITT
PROGRESSIVE LEARNING SYSTEMS	BASS	MICHAEL		C	88-NL-139		FREGLY
PURDUE RESEARCH FOUNDATION	MARINESCU	DAN		C	88-NM-309		WAKSMAN
	MORRE	JAMES		N	88-NL-100		CERVENY
	MURPHY	S		N	88-NA-204		HELIN
PURDUE UNIVERSITY	MONTETH	DAVID		K	98-NL-108		CERVENY
	ROSS	DEBORAH		D	88-NL-090		CERVENY
QUALCOMM, INC.	VITERBI	ANDREW		J	88-NM-259	A	CROWLEY
QUANSCAN, INC.	WANG	CHENG		T	88-NE-102		WITT
	WEST	PAUL		E	88-NE-105		MALLOY
		GEORGE		M	88-NP-067		PRINCE
QUANTEX CORPORATION	STORTI				88-NE-072		WEINSTOCK
					88-NE-082		WITT
QUEENS COLLEGE	DIPACLA	ROBERT		A	98-NM-352		MILLER
RE/SPEC INC	RATIGAN	JOE		L	88-NA-169		BOYCE
RAMP CORPORATION	CARR	RODERICK		A	88-NM-290	D	CROWLEY
RENSSELAER POLYTECHNIC INSTITUTE	INTERANTE	LEONARD		V	88-NC-105		ULRICH
	LEUNG	CHUN		M	88-NP-066		RADOSKI
	MACCPONE	ROBERT		K	88-NC-164	D	ULRICH
	TADJBAKSH	IRADJ			88-NA-126	D	NACHMAN
RENSELLEAR POLYTECHNIC INST.	ODDHY	RICARDO			88-NA-199		BOYCE
RESOURCE INTERNATIONAL INC.	FL-LAITHY	AHMED			98-NA-131		BOYCE
RICE UNIVERSITY	SEDIENT	PHILIP		B	88-NL-091		CERVENY
	BIXBY	ROBERT		E	88-NM-339		MILLER
	DENVIS JR.	JOHN		E	88-NM-357	A	MILLER
	KINSEY	JAMES		L	88-NC-095		DAVIS
	WARD	CALVIN		H	98-NL-174		CERVENY
RITEC INC.	ZWANEPEJEL	WILLY			98-NM-175		WAKSMAN
ROCKWELL INTERNATIONAL	PETERSON	GARY		L	98-NE-069		WEINSTOCK
ROCKY RESEARCH	MARSHALL	DAVID		B	98-NE-126		ROSENSTEIN
RUTGERS - THE STATE UNIVERSITY	LANGELIERS	JAMES			88-NA-191		TISHKOFF
RUTHERFORD RESEARCH	FRED S. ROBERTS	PETER L. HAMMER		C	88-NM-321		MILLER
SM SYSTEMS & RESEARCH CORPORATION	CHOWCHURY	3			98-NE-061		ROSENSTEIN
	HERSH	GILBERT		N	98-NM-230		CROWLEY
	SOMAYAJULU	Y.		V	88-NP-053		RADOSKI
SRI INTERNATIONAL	CROSBY	DAVID		R	88-NC-125		WODARCZYK

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SSOD RESEARCH CORPORATION	GOLDEN		DAVID	M	88-NC-116		DAVIS
	GREEN		CAROL	E	88-NL-146		CERVENY
	SHER		ARDEN		88-NE-049		MALLOY
	TYSON		CHARLES	A	83-NL-173		CERVENY
	KLIMKIEWICZ		WJGIECH		88-NM-281		CROWLEY
	MORJAN		NELSON	H	88-NL-127		FREGLY
	KUN		ERNEST		88-NL-170		CERVENY
	JACOBSON		ROONEY	D	88-NP-060		SCHLOSSBER
	YU		ZENGZI		98-NP-061		SCHLOSSBER
	SANTA FE INSTITUTE		DANIEL	L	98-NM-277		NACHMAN
SATCON TECHNOLOGY CORPORATION		RICHARD		88-NE-068		WEINSTOCK	
SCIENTIFIC COMPUTING ASSOCIATES INC		DAVID	E	88-NM-222		CROWLEY	
SCIENTIFIC RESEARCH ASSOCIATES, INC.	MEYYAPPAN				88-NM-223		CROWLEY
	CHEN				88-NM-224		CROWLEY
	GRUBIN				88-NE-094		MALLOY
	LIU		HARG-D	Y	88-NA-113		NACHMAN
	SHAMROTH		NANSUEY	L	89-NE-081	A	WITT
	THOMPSON		BRIAN	J	88-NA-074		HELIN
	TOLPADI		ANIL	E	88-NA-075		NACHMAN
	GUSTAFSON		DONALD	K	88-NA-115		HELIN
	LESTER		BRUCE	E	88-NA-211		TISHKOFF
	ROUSE		WILLIAM	P	88-NM-215		CROWLEY
SCIENTIFIC SYSTEMS INC.	BOFILIOS		DIMITRI	B	88-NM-214		CROWLEY
	DWYER		EUGENE	J	88-NL-138		FREGLY
	MEUTSKY		GEORGE		88-NA-179		HARITOS
	DOLEZAL		HUBERT		88-NE-075		WITT
					98-NM-278		MILLER
					88-NL-129		TANGNEY
					88-NL-130		TANGNEY
					88-NL-073		TANGNEY
					89-NL-051		FREGLY
					88-NL-071		TANGNEY
SMITH-KETTLEWELL EYE RESEARCH FOUNDATION	MCREE		SUZANNE	P	88-NA-141		CROWLEY
	VAKAYAMA		KEN		88-NA-141		WU
	SHERMAN		KEITH		88-NA-312	A	NACHMAN
	GENORON		ROBERT	F	89-NM-345		WODDRUFF
	JAEGER		ZEEV		88-NC-144	D	MATUSZKO
	SPECTOR		SCOTT	J	88-NP-041		RADOSKI
	EUBANK		PANDALL	L	88-NM-225		CROWLEY
	HUSANE		NARAYAN	S	88-NM-226		CROWLEY
	LIN		CHIN	S	88-NE-095		MALLOY
	ANDREWS		MICHAEL	A	89-NE-087		MALLOY
SOUTHERN ILLINOIS UNIVERSITY	LESTIEUTRE		GEORGE		88-NP-101	A	SCHLOSSBER
	HAVEN		VICTOR	E	88-NM-343		CROWLEY
	NAMAVAR		FEREYDOOZY	M	88-NP-047	A	SCHLOSSBER
	BLOOM		DAVID		98-NM-340		CROWLEY
	BOYD		STEPHEN	L	88-NM-190		NACHMAN
	BYER		ROBERT		98-NL-085		CERVENY
	CANYON		ROBERT		99-NM-341	A	WODDRUFF
	GOLUB		GENE				
	SRIN-GALIC		DUNJA				
	KAILATH		THOMAS				

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PW NAME
STAR MICRO-WAVE	LITTLE		WILLIAM	A	88-NE-110	D	WEINSTOCK
	REINHARD		MARTIN		88-NL-115		CERVENY
	SHOHAM		YDAN		89-NL-116		CERVENY
	ZARE		RICHARD		89-NM-269		WAKSMAN
STATE UNIVERSITY OF NEW YORK	PHILLIPS		ROBERT	N	88-NC-112		DAVIS
	DAVIS		ELIZABETH	M	88-NP-082		BARKER
	GEORGE		THOMAS	T	88-NL-056		TANGNEY
	HAGSTROM		THOMAS	F	88-NC-135		DAVIS
STRUCTURAL ANALYSIS TECHNOLOGY INC	LO		ALBERT	Y	88-NM-349		NACHMAN
	PRASAD		PARAS	N	88-NM-268		WODDRUFF
	KAMIL		HASAN	N	88-NC-161		ULRICH
	KUD		AN-YJ		88-NA-114		NACHMAN
STRUCTURAL INTEGRITY ASSOCIATES, INC.	NEU		JOHN	T	88-NA-184		HARITOS
	LAQUADRA		GREGORY		88-NP-090		SCALOSSBER
	DOHERTY		FRANCIS	G	89-NP-078		SCALOSSBER
	MOHANTY		BIDHU	B	88-NL-164		CERVENY
SYSTEMS APPLICATION INC.	REED		CHRISTOPHER	W	88-NM-233		CRJWLEY
	CAMPBELL		HAROLD	W	88-NA-151		MCMICHAEL
	CLARKE		THOMAS	L	88-NM-227		CRJWLEY
	RAUSCHER		E.	A	88-NM-257		CRJWLEY
TECHNION-RESEARCH LABORATORIES	ADLER		ROBERT	J	88-NP-080		RADOSKI
	FARJJI		FARHAN	A	88-NM-275		WODDRUFF
	KRITIKOS		HARALAMBOS	N	88-NM-244		CRJWLEY
	LIN		AVI	C	88-NM-245		CRJWLEY
TELEPHOS ASSOCIATED	SHARER		JOHN	C	88-NM-210		WAKSMAN
	MOENY		W.	M	88-NE-073		WEINSTOCK
	CARROLL		R.	J	88-NP-057		SMITH
	CHQA		J	D	88-NM-322		WODDRUFF
TEXAS A AND M UNIVERSITY	SCJOBEIRI		T		88-NA-076		HARITOS
	JAY		JAMES	L	89-NA-103	D	HELIN
	KEEFE		DAVID	O	88-NL-093		CERVENY
	ISHIHARA		OSAMU	O	89-NA-183		BIRKAN
TEXAS EXPLOSIVES CO., INC.	MARTIN		CLYDE	F	88-NP-040		BARKER
	SMITH		W	L	88-NM-304		CRJWLEY
	GRAY		ROBERT	B	88-NE-077		WITT
	KON		JOSEPH	B	88-NP-081		RADOSKI
THERMA-WAVE, INC	THOMPSON		JOSEPH	B	88-NP-068		PRINCE
	MICHEL		H.	H	88-NE-097		WITT
	LOOP		MICHAEL	S	88-NP-111		SMITH
	MCHEE		JERRY	S	88-NL-166		TANGNEY
TJOPIC TECHNOLOGY	GLEZER		ARI	R	88-NL-166	D	CERVENY
	KOSTUK		RAYMOND	A	33-NL-079	A	MCMICHAEL
	LAUTER		JUDITH	K	83-NA-158		GILES
	WIGLEY		DAVID	L	93-NE-125		FREGLY
TOR GEOPHYSICS CORPORATION	9REWER		DENNIS	E	83-NL-075		MATUSZKO
	BARLOW		R	E	93-NC-104		CRJWLEY
	ATKINSON		ROGER	E	93-NM-206		WODDRUFF
	BOWERS		MICHAEL	T	93-NM-335	A	CRJWLEY
UNIV OF ALABAMA	UNIV OF ARIZONA				88-NL-151		CERVENY
	UNIV OF CALIFORNIA				88-NC-118		WODARCZYK
	UNIV OF ARKANSAS						
	UNIV OF CALIFORNIA						

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF CHICAGO	BRAD	C.		A	88-NP-099		SCALOSSBER
	BRON	A		E	83-NE-037		MALLOY
	CARTER	EMILY		A	88-NC-117		DAVIS
	CHAN	T.		F	88-NC-195		NACHMAN
	DAILY	JOHN		W	88-NC-131		WODARCZYK
	GARDNER	WILLIAM		A	88-NM-346		WODRUFF
	GRUNBAUM	F. ALBERTO			88-NM-331	A	NACHMAN
	KADTKE	JAMES			88-NM-363		NACHMAN
	LEONDES	C.		T	88-NM-317		CROWLEY
	LEVAN	N			88-NM-182		CROWLEY
UNIV OF CINCINNATI	MUKHERJEE	A		K	88-NE-130		RJSENSTEIN
	PIMENTEL	GEORGE		C	99-NC-142		WODARCZYK
	ROSS	SHELDON			88-NM-172	A	WODRUFF
	SHAW	GORDON			88-NC-054		BERRY
	SMITH	OWEN			88-NC-139	D	DAVIS
		PAUL			88-NC-157		ULRICH
	THOMPSON	ROBERT		C	83-NM-184		NACHMAN
	TRIGLER	WILLIAM		C	88-NC-110		MATUSZKO
	VULLIET	PHILIP		R	89-NC-066	A	BERRY
	WAKIMOTO	ROGER		M	98-NC-140		KOERMER
UNIV OF COLORADO	WALPITA	L		M	89-NE-116		GILES
	WETS	ROGER J. B.			98-NM-308	A	MILLER
	ZIPSER	DAVID			99-NL-169		BERRY
	SIBENER	STEVEN		J	88-NC-130	A	BURGGRAB
	BYC	ALDOZIMIERZ			88-NM-311		WODRUFF
	BRANCH	MELVYN		C	88-NA-210		BIRKAN
	CHOW	CHUEN-YEN			88-NA-206	A	HELIN
	FREYMUTH	PETER			88-NA-200	A	HELIN
	LEONE	STEPHEN		R	88-NC-093		WODARCZYK
	LUTTGES	MARVIN		W	88-NA-201	A	HELIN
UNIV OF COLORADO AT DENVER	MANDEL	JAN			98-NM-298		NACHMAN
	AUGENBAUM	JEFFREY		M	88-NM-183		NACHMAN
	COHEN	MARION		F	88-NL-052		TAGNEY
	DABORA	ELI		K	88-NA-144		TISHKOFF
	BRILL	THOMAS		B	88-NA-171		BIRKAN
	DOLGOPOLSKY	ALEX			98-NA-146		HARITOS
	SANTOSA	FADIL			98-NM-208	A	NACHMAN
	VINSON	JACK		R	98-NA-129		WU
	GREEN	WILLIAM		A	88-XO-004		ROBISON
	GREEN	JAMES		M	88-NM-177		WODRUFF
UNIV OF EDINBURGH	GREEN	DAVID			83-NL-076		TAGNEY
	GREEN	JACOB			98-NM-318		CROWLEY
	HAMMER	R.E.			88-NM-198	A	CROWLEY
	KALMAN	S. RODNEY			98-NM-307	A	MILLER
	CANFIELD	SAM			88-NM-273		MILLER
	STURCKLE	NARENDRA			98-NM-178	A	WAKSMAN
	SHUJA				88-NM-272	A	WAKSMAN
	ALHO	JUHA		M	93-NL-119		CERVENY
	ANDERSEN	GEORGE		J	83-NL-062		FREGLY

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INSTITUTION	INVESTIGATOR	LAST NAME	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF IOWA	CHEV	WAI-KAI			88-NE-123		WITTMANN
	SELLMAN	ANDREW	J		88-NC-151		9URGGRAF
	PLESS	VERA			88-NM-294	A	MILLER
	PLEWA	MICHAEL	J		88-NL-147		CERVENY
	SACKS	JEROME			89-NM-332	A	WODRUFF
UNIV OF KANSAS	SCHAEFFER	DAVID	J		88-NL-111		CERVENY
					88-NL-152		CERVENY
					88-NC-099		DAVIS
					88-NL-172		CERVENY
					88-NC-069		MATUSZKO
UNIV OF MARYLAND	BURTON	DONALD	J		88-NP-103		SC-HLOSSBER
	STWALLEY	WILLIAM	C		88-NL-072		TANGNEY
	CROWELL COMUZZIE	DIANA	K		88-NM-297		NACHMAN
	ANTMAN	STUART			88-NM-310		WODRUFF
	KEDEM	BENJAMIN			89-NP-045	A	SMITH
UNIV OF MARYLAND BALTIMORE COUNTY	LEE	CHI	H		88-NL-159		CERVENY
	PONNAMPERUMA	CYRIL			88-NM-199		MILLER
	GOWDA	MUDRAPPA	S		88-NL-064		TANGNEY
	POLLEN	DANIEL	A		88-NM-179		MILLER
	ROSENBERG	ARNOLD	L		88-NM-320		WAKSMAN
UNIV OF MICHIGAN	ROYER	JAMES	M		88-NL-078		TANGNEY
	FAETH	GERARD	M		88-NA-147	A	TISHKOFF
	GOAD	LINDA	S		88-NL-161		CERVENY
	LEER	BRAM VAN	W		88-NM-367	A	NACHMAN
	ERNIE	DOUGLAS	H		88-NM-319		WODRUFF
UNIV OF MINNESOTA	TEMPER	AMSD	J		88-XO-002	A	CAVENDER
	AVULA	XAVIER			88-NL-110		CERVENY
	BADR	MOSTAFA	J		88-NM-200		WODRUFF
	SAIN	LEE			88-NM-344		NACHMAN
	CHICONE	CARMEN			88-NM-326		MILLER
UNIV OF NEBRASKA	EL-SAYED	MOHAMED			88-NM-267		WAKSMAN
	BHATTACHARYA	PRABIR	K		88-NM-201	A	NACHMAN
	SHEPARD	HARVEY	A		88-NL-082		TANGNEY
	SMITH	ROBERT	J		88-NC-092		WJARCZYK
	WRIGHT	JOHN	E		88-NM-347		NACHMAN
UNIV OF NEW YORK CITY	SIVASHINSKY	GREGORY	K		88-NC-107		WJARCZYK
	MILLER	ROGER	E		88-NL-112		CERVENY
	PFAENDER	FREDERIC	K		88-NA-149		MCMICHAEL
	GAD-EL-HAK	MOHAMED			89-NL-053		TANGNEY
	BECK	JACOB	W		88-NL-050	A	FREGLY
UNIV OF OREGON	KEELE	STEVEN			89-NM-329	A	WAKSMAN
	BAJCKY	RUZENA	F		88-NC-132	A	ULRICH
	GARITO	A.	S		88-NM-173		WODRUFF
	MINTZ	PETER	M		88-NC-129		MATUSZKO
	THORVE	STEVEN	H		88-NM-353		WODRUFF
UNIV OF PENNSYLVANIA	CRUICKSHANK	JOSEPH	R		88-NP-102		SC-HLOSSBER
	KAY	DAVID			38-NL-059		TANGNEY
	FERLY	DAVID					
	WILLIAMS						

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INSTITUTION	LAST NAME	INVESTIGATOR	FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
UNIV OF SOUTH CAROLINA	OSWALD		EDWARD	J	88-NL-155		CERVENY
UNIV OF SOUTHAMPTON	DYKE		JOHN	M	88-NC-156		WJDARCZYK
UNIV OF SOUTHERN CALIFORNIA	FEINBERG		JACK		88-NP-104	A	SCALOSSBER
	FORREST		STEPHEN	R	88-NE-123		GILES
	GAUDIOT		JEAN-LUCH		88-NE-124	A	GILES
	HO		CHIH-MING		88-NA-102	A	HELIN
	MENDEL		JERRY	M	88-NY-349		WJDRUFF
	REDKOPP		LARRY		88-NA-125	A	MCMICHAEL
	REED		IRVING	S	88-NM-337		MILLER
	SAFONOV		MICHAEL		88-NM-190	A	CRWLEY
	SKORONSKI		JANISLAW		88-NM-316		CRWLEY
	STEIER		WILLIAM	H	83-N5-111	A	GILES
	WITTIIG		CURT		88-NC-120		WJDARCZYK
UNIV OF SOUTHERN CALIFORNIA (FLEC ENG)	KOSKO		GARY		88-NE-049	A	GILES
	LI		VICTOR		88-NM-336	A	WJDRUFF
UNIV OF STUTTGART	SCHRADE		HERBERT	D	88-NA-207	A	BIRKAN
UNIV OF TENNESSEE	MAMANTOV		GLEB		88-NC-106		WILKES
	SAYLER		GARY	S	88-NL-061		CERVENY
	WHITE		DAVID	C	88-NL-107		CERVENY
UNIV OF TEXAS	DEWAR		MICHAEL J. S.		88-NC-066		MATUSZKO
	MICHL		JOSEF		88-NC-155		MATUSZKO
UNIV OF TEXAS MEDICAL BRANCH	POSTLETHWAIT		EDWARD	M	83-NL-148		CERVENY
UNIV OF TOLEDO	THEODOSIOU		C.	E	88-NP-098		KELLEY
UNIV OF UTAH	KEENER		JAMES	P	88-NM-212		NACHMAN
UNIV OF VIRGINIA	LASIECKA		IRENA		88-NM-299	A	CRWLEY
UNIV OF WASHINGTON	PREIDENTHAL		ROBERT	E	88-NA-127		A
	CHRISTIANSEN		WALTER	H	83-NA-202	A	TISHKOFF
	NELSON		THOMAS	D	83-NL-057	A	MCMICHAEL
	ROCKAFELLAR		RALPH	T	89-NM-366		FREGLY
	MITCHELL		BRIAN		88-NP-064	A	MILLER
UNIV OF WESTERN ONTARIO	ANDREN		ANDERS	W	88-NL-086		SMITH
UNIV OF WISCONSIN	BITTAR		E. EDWARD		88-NL-101		CERVENY
	CHANG		Y	A	88-NE-119		MALLOY
	CRIM		AUSTIN		88-NE-135	D	WEINSTOCK
	GLENBERG		F. FLEMING		88-NC-134		WJDARCZYK
	HARRIS		ARTHUR		88-NL-063		FREGLY
	NOHEL		ROBIN	F	88-NL-087		CERVENY
	SLEWROD		JOHN	A	88-NM-314	A	NACHMAN
	WEST		MARSHALL		88-NM-328		NACHMAN
	PERJMAN		ROBERT		88-NC-109		MATUSZKO
UNIV OF WYOMING			HAROLD		88-NL-150		CERVENY
UNIVERSAL ENERGY SYSTEMS INC			TAI-TL HAH		88-NC-125		ULRICH
UNIVERSAL SENSORS, INC.			GLENW	J	88-NL-122		CERVENY
UNIVERSITY OF MARYLAND			VICTOR	R	88-NM-271	A	WAKSMAN
	JONES		CHRISTOPHER		93-NM-194		NACHMAN
	PANIER		E.	R	88-NM-181		MILLER
	SHAWWA		SHAHAB	A	88-NL-069	A	TANGNEY
	WILLIAMS		ELLEN	D	88-NC-113		SURGGRAF
UNIVERSITY OF MICHIGAN	CALAHAN		DONALD	A	88-NM-211	A	NACHMAN

REPORT DATE 04/21/89

INSTITUTION INDEX (1 JAN 89 - 31 MAR 89)

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STATUS - 'A' = ACCEPTED, 'D' = DECLINED, 'W' = WITHDRAWN

INSTITUTION

WORCESTER POLYTECHNIC INSTITUTE
WRIGHT STATE UNIVERSITY

YALE UNIVERSITY
YALE UNIVERSITY SCHOOL OF MEDICINE

INVESTIGATOR		FIRST NAME	MIDDLE	PROPOSAL	STATUS	PM NAME
LAST NAME						
BRIDGES		THOMAS	J	98-NM-266	A	NACHMAN
KENDYER		GALEN	J	88-NL-171		CERVENY
MILLER		DAVID	F	88-NM-204		NACHMAN
CROSS, JP.		R. JAMES		98-NC-102		DAVIS
HIRSCH		JOY		99-NL-167		TANGNEY

PART II

REPORT DATE 04/21/83

PROPOSAL STATUS REPORT (1 JAN 83 - 31 MAR 88)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
(SBIR) DEVELOP ELECTROMAGNETIC POWER AMPLIFICATION DEVICE (EMPAD) WITH PROPULSION APPLICATIONS GENESIS COMPUTER PRODUCTS INC	KELLY WALTER	N 06 15/01/88 \$4,977,250	SIRKAN 88-VA-032	
(SBIR) AN EXPERIMENTAL INVESTIGATION OF COMBUSTION INSTABILITY PHENOMENA IN LIQUID-FUELED ROCKET ENGINES AEROMETRICS INC	BACHALO WILLIAM	N 06 20/01/88 \$43,335	SIRKAN 89-VA-111	
SUPPORT FOR THE COMBUSTION INSTITUTE COMBUSTION INSTITUTE	PALMER HOWARD	R 12 22/02/88 \$10,000	A SIRKAN 88-VA-150	\$10,000 15/09/89 \$10,000
PROPULSION RESEARCH ON THE HYBRID PLUME PLASMA ROCKET MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CHANG-DIAZ F	R 12 01/03/88 \$182,000	A SIRKAN 89-VA-151	\$182,000 02/09/88 \$182,000
STRUCTURE/PROPERTY/REACTIVITY RELATIONSHIPS AMONG NITRAMINES AND OTHER ENERGETIC MATERIALS UNIV OF DELAWARE	BRILL THOMAS	R 12 04/03/88 \$99,399	SIRKAN 89-VA-171	
SBIR THERMALLY INDUCED MOLECULAR IMPULSION ELECTRIC GENERATOR LOCH ENTERPRISES	LOCHMILLER ALAN	N 06 09/03/88 \$101,575	SIRKAN 88-VA-130	
SBIR SYNTHESIS OF STABLE HIGH-ENERGY POCKET PROPELLANTS TEXAS EXPLOSIVES CO., INC.	KEEFE DAVID	N 06 09/03/88 \$50,000	SIRKAN 88-VA-193	
BASIC PROCESSES OF PLASMA PROPULSION UNIV OF STUTTGART	SCHRADE HERBERT	R 24 22/03/88 \$172,337	A SIRKAN 89-VA-207	\$84,373 01/03/88 \$172,337
FLAME CHEMISTRY OF SOLID PROPELLANT COMBUSTION UNIV OF COLORADO	BRANCH MELVYN	R 12 25/03/88 \$90,576	SIRKAN 88-VA-210	
(SBIR) BIMOLULAR AND CROSS-ANISOTROPIC STRESS ANALYSIS OF SOILS RESOURCE INTERNATIONAL INC.	EL-LAITAY AMMED	N 06 04/02/88 \$47,250	BOYCE 88-VA-131	

REPORT DATE 04/21/99

PROPOSAL STATUS REPORT (1 JAN 98 - 31 MAR 98)
AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF AEROSPACE SCIENCES

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TITLE
TITLE (CONT.)
INSTITUTION

TYPE/MONTHS
RECEIVED
AMOUNT

STATUS
PROGRAM MANAGER
PROPOSAL #

INITIATE
START DATE
TOT AMT

INVESTIGATOR

MEASURING IN SITU ROCK STRESSES

VISTA RESEARCH CORPORATION

DE LA CRUZ

RODOLFO

BOYCE
88-NA-132

N 06
04/02/98
\$50,000

(SBR) TENSILE STRENGTH IN THE HYDRAULIC FRACTURE FIELD TEST FOR
DETERMINING IN SITU STRESSES
RES/SPC INC

RATIGAN

JOE

BOYCE
88-NA-159

N 06
03/03/98
\$49,244

CENTRIFUGE MODELLING OF SLAST-INDUCED LIQUEFACTION

KTECH CORPORATION

GAFFNEY

EDWARD

BOYCE
88-NA-170

N 06
03/03/98
\$49,834

EXPERIMENTAL VERIFICATION OF MICROMECHANICAL PREDICTIONS ON
ELASTIC-PLASTIC BEHAVIOR OF COHESIONLESS SOILS
RENSESSLEAR POLYTECHNIC INST.

DOBRY

RICARDO

BOYCE
88-NA-199

N 12
16/03/98
\$69,700

ASSESSMENT OF REPAIR OF COMPOSITES

TEXAS A AND M UNIVERSITY

OGHJA

O

HARITOS
88-NA-076

N 48
05/01/98
\$553,211

(SBR) DIAMOND THIN FILM/METAL MATRIX COMPOSITES FOR ENHANCED
STRUCTURAL PERFORMANCE
CRYSTALLUME

RAVI

K

HARITOS
89-VA-116

N 05
21/01/98
\$55,000

(SBR) DEVELOPMENT OF DAMAGE TOLERANT CONCEPTS FOR ADVANCED
COMPOSITE STRUCTURES
MISSION RESEARCH CORP

EISLER

ROBERT

HARITOS
98-VA-121

N 05
21/01/98
\$50,625

(SBR) DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SOLID (I4SS)

INTELLIGENT SYSTEMS INTEGRATION INC.

ROSS

TIMOTHY

HARITOS
89-VA-122

N 06
21/01/98
\$67,875

(SBR) MIXED MODE DELAMINATION FRACTURE MECHANISMS IN LAMINATED
COMPOSITES
MATERIALS SCIENCES CORPORATION

CHATTERJEE

SAILENDRA

HARITOS
89-NA-123

N 06
21/01/98
\$50,000

A NEW MODEL FOR MATRIX FATIGUE DAMAGE ACCUMULATION IN COMPOSITE

N 04

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
LAMINATES BATTELLE PACIFIC NORTHWEST LABORATORIES	WILLIFORD	17/02/88 \$12,000	HARITOS 98-VA-145	
CONSTITUTIVE RESPONSE PREDICTIONS ON THE BASIS OF A COUPLED MATERIAL SPACETIME MODEL UNIV OF DELAWARE	OLCZAKOWSKI	N 36 17/02/88 \$214,526	HARITOS 99-VA-146	
SAFE PERMANENT DEFORMATION IN METAL-MATRIX COMPOSITE STRUCTURES ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 06 02/03/88 \$494,300	HARITOS 88-VA-152	
(C/SIR) DEVELOPMENT OF A NEW BERYLLIUM/GRAPHITE-EPDXY SANDWICH COMPOSITE ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 6 02/03/88 \$49,280	HARITOS 88-VA-153	
SAFE NONLINEAR RESPONSE OF CARBON-CARBON PANELS IN HYPERSONIC ENVIRONMENT SADMA TECHNOLOGIES	DIMITRI	N 06 03/03/88 \$70,354	HARITOS 88-VA-179	
SAFE FREE EDGE STRESSES FOR COMPOSITE LAMINATES UNDER RAPID THERMAL/MOISTURE TRANSIENTS STRUCTURAL INTEGRITY ASSOCIATES, INC.	AN-YJ	N 06 03/03/88 \$48,204	HARITOS 88-VA-134	
SAFE FUEL ATOMIZATION FOR PROPELLSION SYSTEMS METAMATIX INC.	RICHARD	N 06 09/03/88 \$48,251	HARITOS 98-VA-195	
SAFE MACRO-MACROMECHANICS MODEL FOR THE STRENGTH AND INTEGRITY OF LAMINATED CERAMIC MATRIX COMPOSITE APPLIED ANALYSIS, INC.	HUANJUI	N 06 09/03/88 \$49,330	HARITOS 99-VA-196	
SAFE DAMAGE GROWTH PREDICTION AND ASSESSMENT IN COMPOSITES USING SYSTEM IDENTIFICATION APPLIED ENGINEERING RESEARCH, INC.	NABIM	N 06 03/03/88 \$48,500	HARITOS 88-VA-197	
SAFE A NOVEL FINITE MODELLING TECHNIQUE FOR MULTI-LAYERED COMPOSITES ARTECH ENGINEERING SERVICES, INC.	RUSSELL	N 06 10/03/88 \$49,333	HARITOS 99-VA-199	
SAFE DEVELOPMENT OF ADVANCED CONSTITUTIVE RELATIONSHIPS FOR COATED		N 06		

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
CARBON-CARBON COMPOSITE MATERIALS FOR ENGINEERING	WACK	11/03/88 \$49,932	HARITOS 88-VA-195	
3D ANALYSIS AND VERIFICATION OF FRACTURE GROWTH MECHANISMS IN FIBER-REINFORCED CERAMIC COMPOSITES MASSACHUSETTS INSTITUTE OF TECHNOLOGY	CLEARY	N 36 15/03/88 \$346,785	HARITOS 89-VA-198	
(CBIR) GENERAL TIME-DOMAIN UNSTEADY AERODYNAMICS OF WINGS WAYNE JOHNSON	JOHNSON	N 06 05/01/88 \$41,493	HELIN 88-VA-072	
THE EFFECT OF DISTURBANCE FREQUENCY CONTENT ON COMPRESSOR STALL PROPAGATION SCIENTIFIC PSCH ASSOCIATES INC	LIU	N 06 05/01/88 \$50,000	HELIN 88-VA-074	
(CBIR) COMPUTATION OF UNSTEADY 3D VISCOUS FLOWS AND DYNAMIC STALL OF PITCHING BODIES ECCODYNAMICS RESEARCH ASSOCIATION INC	ROACHE	N 06 15/01/88 \$54,900	HELIN 88-VA-097	
(CBIR) INVESTIGATIONS OF STRONG VORTEX INTERACTION AND WEIS-FROSH LEFT MECHANISM WITH APPLICATION TO TURBOMACHINES VIVIAN RESEARCH ASSOCIATES INC	SUNDARAM	N 06 15/01/88 \$51,292	HELIN 88-VA-098	
(CBIR) EXPLORATORY STUDY OF A TIP VORTEX MANAGEMENT CONCEPT VIVIAN RESEARCH ASSOCIATES INC	RAD	N 06 15/01/88 \$53,786	HELIN 89-VA-099	
(CBIR) EXPERIMENTAL EVALUATION OF VORTEX BREAKDOWN CHARACTERISTICS OF HIGHLY MANEUVERABLE AIRCRAFT CONFIGURATIONS VIVIAN RESEARCH ASSOCIATES INC	RAD	N 06 15/01/88 \$51,604	HELIN 89-VA-100	
(CBIR) VISCOUS/POTENTIAL COUPLING FOR OFF-DESIGN CALCULATION OF INLET FLOWS ANALYTICAL METHODS INC	NATHMAN	N 06 15/01/88 \$49,994	HELIN 88-VA-101	
CONTROL OF UNSTEADY AERODYNAMIC FORCES UNIV OF SOUTHERN CALIFORNIA	HO	N 24 19/01/99 \$223,200	A HELIN 88-VA-102	\$52,067 01/05/88 \$223,201
INFLUENCE OF INLET FLOW CONDITION, PRESSURE GRADIENT, AND WALL		N 12	D	

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TJY AMT
CURVATURE ON BOUNDARY LAYER FLOW TEXAS A AND M UNIVERSITY	SCHUBERT T	19/01/88 \$42,723	MELIN 88-VA-103	
(SBR) ROTOR-STATOR INTERACTIVE NAVIER-STOKES FLOW CODES. DEVELOPMENT FOR SIMULATION OF TIP CLEARANCE LOSSES. EXTRECH INC.	MOYLE IAV	N 06 19/01/88 \$49,852	MELIN 88-VA-105	
(SBR) EVALUATION OF BLADE PASSAGE VORTEX CORE MEASUREMENTS AS STALL PRECURSIVE AND STALL MARGIN INDICATIVE SIGNALS EXTRECH INC.	MOYLE IAV	N 06 19/01/88 \$49,852	MELIN 88-VA-106	
A NUMERICAL INVESTIGATION OF DYNAMIC STALL USING A DISCRETE VORTEX METHOD PHYSICAL RESEARCH INC.	CAYLOR MARK	N 06 04/02/88 \$49,935	MELIN 88-VA-133	
THE TRANSIENT DEVELOPMENT OF VORTICES OVER A DELTA WING VIRGINIA POLYTECHNIC INST & STATE UNIV	TELONIS DEMETRI	N 24 03/03/88 \$129,474	MELIN 88-VA-158	
(SBR PHASE II) DEVELOPMENT OF A UNIQUE NONINTRUSIVE TECHNIQUE FOR THE MEASUREMENT OF VORTEX FLOWS SIDETICS INTERNATIONAL INC.	MALCOLM GERALD	N 24 09/03/88 \$595,937	MELIN 88-VA-174	
DYNAMIC SEPARATION: SEARCH FOR THE CAUSE OF DYNAMIC STALL AND SEARCH FOR ITS CONTROL UNIV OF COLORADO	FREYMUTH PETER	N 18 16/03/88 \$105,569	A MELIN 88-VA-200	\$39,233 01/07/88 \$105,569
UNSTEADY SEPARATED FLOWS: PHYSICAL MECHANISMS AND CONTROLS UNIV OF COLORADO	LUTTGES MARVIN	N 23 16/03/88 \$269,824	A MELIN 88-VA-201	\$92,500 01/07/88 \$269,824
EFFECT ON FREE STREAM TURBULENCE ON HEAT TRANSFER PURQUE RESEARCH FOUNDATION	MURTHY S	R 13 17/03/89 \$66,597	MELIN 88-VA-204	
THEORETICAL STUDIES OF THE KINEMATICS, DYNAMICS, STABILITY AND CONTROL OF UNSTEADY/VORTICAL FLOWS UNIV OF COLORADO	CHOW CHJEN-YEN	N 24 21/03/88 \$29,000	A MELIN 88-VA-206	\$33,500 15/07/88 \$214,750
(SBR PHASE II) HOT-BLOCK PYROMETRY		N 05		

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SCIENTIFIC RSCH ASSOCIATES INC	THOMPSON	28/03/88 \$53,320	HELIN 88-VA-211	
(SBIR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED ANALYTICAL SERVICES & MATERIALS INC.	MANGALAM	N 06 15/01/88 \$50,000	MCMICHAEL 89-VA-077	
(SBIR) QUANTIFICATION OF TURBULENCE FOR HYPERSONIC FLOW AROUND AEROSPACE SYSTEMS ENGINEERING ANALYSIS, INC.	TATUM	N 06 15/01/88 \$51,737	MCMICHAEL 89-VA-078	
(SBIR) ANALYTICAL FLUID DYNAMICS GENERAL ANALYTICS CORPORATION	ADOMIAN	N 07 15/01/88 \$50,000	MCMICHAEL 88-VA-031	
(SBIR) SHOCK-TURBULENCE INTERACTIONS IN ELEMENTARY GEOMETRIES PEDA CORPORATION	HONG	N 06 15/01/88 \$49,734	MCMICHAEL 88-VA-033	
(SBIR) TURBULENCE MODELING OF COMPRESSIBLE BOUNDARY LAYERS PEDA CORPORATION	BARDINA	N 06 15/01/88 \$49,837	MCMICHAEL 88-VA-034	
(SBIR) MODELING OF SHEAR IN TURBULENT ROTATING FLOWS PEDA CORPORATION	BARDINA	N 06 15/01/88 \$49,897	MCMICHAEL 88-VA-035	
(SBIR) A NEW DESIGN FOR A THERMAL HOMOGENEIZER IN A PULSED CLOSED- CYCLE HIGH POWER EXCIMER LASER VISVAN RESEARCH ASSOCIATES INC	SUNDARAM	N 06 15/01/88 \$50,214	MCMICHAEL 89-VA-037	
(SBIR) DESIGN OF ADVANCED TRANSONIC LOW DRAG NATURAL LAMINAR FLOW =USELAGE SHAPES VISVAN RESEARCH ASSOCIATES INC	DOOSLE	N 06 15/01/88 \$55,039	MCMICHAEL 89-VA-038	
(SBIR) IMPROVED FLOW UNDERSTANDING: DESIGN OF A HIERARCHICAL PARALLEL-PROCESSING CFD CODE COMPUTATIONAL MECHANICS CONSULTANTS INC	MANHARDT	N 06 15/01/88 \$50,000	MCMICHAEL 89-VA-039	
(SBIR) A SEPARATION SENSOR BASED ON A NEWLY DISCOVERED PHASE		N 06		

TITLE (TITLE (CONT.)) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
REVERSAL PHENOMENON ANALYTICAL SERVICES & MATERIALS INC.	S MANGALAM	15/01/88 \$50,000	MCMICHAEL 88-NA-090	
(SBIR) STREAMLINE CURVATURE EFFECTS ON A HYPERSONIC/SUPERSONIC SHEAR/MIXING LAYER FLOW INDUSTRIES INC	JJU WEN-HUEI	N 06 15/01/88 \$49,950	MCMICHAEL 88-NA-091	
(SBIR) EXPLOITATION OF MULTIPLE SOLUTIONS OF THE NAVIER-STOKES EQUATIONS TO ACHIEVE RADICALLY IMPROVED FLIGHT NIELSEN ENGINEERING AND RESEARCH CO	NIXON DAVID	N 06 15/01/88 \$54,021	A MCMICHAEL 88-NA-092	\$54,021 15/07/89 \$54,021
(SBIR) STABILITY AND TURBULENCE MECHANISMS IN VORTEX FLOWS NIELSEN ENGINEERING AND RESEARCH CO	CHILDS ROBERT	N 06 15/01/88 \$59,993	MCMICHAEL 88-NA-093	
(SBIR) A NEW METHODOLOGY FOR ADAPTIVE GRID GENERATION CREARE INC. RESEARCH & DEVELOPMENT INC	DVINSKY ARKADY	N 06 15/01/88 \$49,971	MCMICHAEL 88-NA-094	
(SBIR) BLUNT BODY DRAG REDUCTION BY FORCED SEPARATION VIGYAN RESEARCH ASSOCIATES INC	RAO D	N 06 15/01/88 \$49,451	MCMICHAEL 89-NA-095	
(SBIR) PARALLEL PROCESSING ALGORITHMS FOR FLUID MECHANICS FORMAL SYSTEMS DESIGN & DEVELOPMENT INC	STUCKWISCH STEVE	N 06 15/01/88 \$50,000	MCMICHAEL 88-NA-096	
(SBIR) QUANTITATIVE DESCRIPTION OF THREE-DIMENSIONAL FLOW FIELDS USING FLOW VISUALIZATION AND AUTOMATED IMAGE PROCESSING NORTHWEST RESEARCH ASSOCIATES, INC.	FRASER ROBERT	N 06 19/01/88 \$49,952	MCMICHAEL 88-NA-107	
(SBIR) ADVANCED ALGORITHM FOR 3D VISCOUS AND SEPARATED FLOW INTELLIGENT SYSTEMS INTEGRATION INC.	LU Z	N 06 19/01/88 \$69,333	MCMICHAEL 89-NA-108	
(SBIR) ADVANCED SIGNAL PROCESSING FOR HIGH SPEED FLOWS USING FAST FOURIER TRANSFORM TECHNIQUES AEROMETRICS INC	BACHALO WILLIAM	N 06 19/01/88 \$49,979	MCMICHAEL 88-NA-109	
ANALYSIS OF HYPERSONIC FLOWS		N 12		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
LOCKHEED CALIFORNIA COMPANY	LONG	02/02/88 \$355,221	MCMICHAEL 88-NA-124	
UNSTEADY BEHAVIORS OF TURBULENT SHEAR FLOWS				
UNIV OF SOUTHERN CALIFORNIA	RECKOPP	R 24 02/02/88 \$777,050	A MCMICHAEL 88-NA-125	\$333,621 15/05/88 \$777,050
NONLINEAR DYNAMICS AND CHAOTIC MOTIONS OF FLUID-STRUCTURE INTERACTION SYSTEMS MCGILL UNIVERSITY	PAIDOUSSIS	N 36 04/02/88 \$257,227	MCMICHAEL 88-NA-130	
(SBIR) ENHANCED COMPUTATIONAL/MODELING OF VISCOUS AND SEPARATED FLOWS FOR COMPLEX FIELDS COMTEK CORP	SIH	N 06 04/02/88 \$49,997	MCMICHAEL 88-NA-136	
(SBIR) RESEARCH INSTRUMENTATION: GAS/AIR FLOW MEASUREMENT DEVICE ARCHITECTURAL ENERGY CORPORATION	WORTMEN	N 06 04/02/88 \$37,227	MCMICHAEL 88-NA-137	
(SBIR) MINIATURE AERODYNAMIC FLOW ANGLE SENSOR ENGINEERING DEVELOPMENT LAB. INC.	CAMBELL	N 06 04/02/88 \$49,278	MCMICHAEL 88-NA-138	
A STUDY OF VORTICES IN COMPRESSIBLE FLOW UNIVERSITY OF MICHIGAN	POWELL	N 24 17/02/88 \$121,735	MCMICHAEL 88-NA-143	
THE STRUCTURE AND CONTROL OF THREE-DIMENSIONAL SHOCK WAVE TURBULENT BOUNDARY LAYER INTERACTIONS PRINCETON UNIVERSITY	BOGDANOFF	R 24 18/02/88 \$773,796	MCMICHAEL 88-NA-148	
FLOW AROUND A FLEXIBLY SUPPORTED CYLINDER UNIV OF NOTRE DAME	GAD-EL-HAK	N 36 22/02/88 \$371,302	MCMICHAEL 88-NA-149	
(SBIR) THREE DIMENSIONAL ADAPTIVE GRID GENERATION FOR ARBITRARY GEOMETRIES SYSTEMS DYNAMICS INCORP.	REED	N 5 22/02/88 \$49,952	MCMICHAEL 88-NA-151	
(SBIR) FLUID MECHANICS: INVISCID-VISCOUS ANALYSIS BY FINITE		N 5		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
ELEMENT METHOD FOR AIRFOILS WITH ICING MEGA RESEARCH INC.	WU	22/02/88 \$49,938	MCMICHAEL 88-VA-152	
(SBR) MODULAR PARALLEL PARTIAL DIFFERENTIAL EQUATION SOLVER FOR FLUID MECHANICS PARSOFT CORPORATION	KOLAWA	N 5 22/02/88 \$49,851	MCMICHAEL 88-VA-153	
(SBR) SIMULANT GAS AIR CHEMISTRY EFFECTS TEST TECHNIQUE FLUID PHYSICS IND.	TRACI	N 5 22/02/88 \$54,234	MCMICHAEL 88-VA-154	
(SBR) INNOVATIVE NUMERICAL METHODS FOR COMPUTATIONAL FLUID DYNAMICS ADVANCED TECHNOLOGY ENGINEERING CONS.	VENKATESAN	N 6 22/02/88 \$46,710	MCMICHAEL 88-NA-155	
(SBR) FLUID MECHANICS AEROCON INCORP.	HOOKER	N 5 23/02/88 \$46,766	MCMICHAEL 88-VA-157	
EXPERIMENTAL INVESTIGATION OF A SPANWISE FORCED MIXING LAYER UNIV OF ARIZONA	GLEZER	R 24 26/02/88 \$165,802	A MCMICHAEL 88-NA-158	\$79,997 01/07/88 \$165,902
OPTICAL PROPERTIES OF PLANE SHEAR LAYERS UNDER PERIODIC DISTURBANCES UNIV OF WASHINGTON	CHRISTIANSEN	N 18 16/03/88 \$133,721	A MCMICHAEL 88-VA-202	\$66,358 01/07/88 \$133,721
THREE-DIMENSIONAL VORTEX INTERACTIONS IN TURBULENT BOUNDARY LAYERS LEHIGH UNIVERSITY	SMITH JR	R 24 17/03/88 \$542,592	MCMICHAEL 88-NA-203	
PHYSICALLY BASED NUMERICAL DISSIPATION FOR EULER AND NAVIER-STOKES EQUATIONS PENNSYLVANIA STATE UNIVERSITY	OLIKRAVICH	N 24 23/03/88 \$120,000	MCMICHAEL 88-VA-208	
(SBR) AEROTHERMAL LOADS FOR HYPERSONIC VEHICLES SCIENTIFIC RSCH ASSOCIATES INC	SHAMROTH	N 05 05/01/88 \$50,000	NACHMAN 89-NA-075	
(SBR) IMPROVE STRUCTURAL EFFICIENCY AND DURABILITY		N 04		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
CENTER FOR REMOTE SENSING	GANGULY	15/01/88 \$48,929	NACHMAN 88-VA-030	
(SBIR) RESEARCH ON INSTRUMENTATION USING MULTIPLE ZERO CROSSINGS	STUART	N 06 20/01/88 \$50,000	NACHMAN 88-VA-110	
COVEX INC.				
(SBIR) COUPLED STRUCTURE-FLUID INTERACTION APPROACH TO ROCKET NOZZLE FATIGUE AND INSTABILITY PROBLEMS	CHEN	N 06 21/01/88 \$50,000	NACHMAN 88-VA-113	
SCIENTIFIC RSCH ASSOCIATES INC				
(SBIR) KNOWLEDGE-BASED NONLINEAR ANALYSIS AND DAMAGE PREDICTIONS FOR AEROSPACE STRUCTURES	KAMIL	N 06 21/01/88 \$49,856	NACHMAN 88-VA-114	
STRUCTURAL ANALYSIS TECHNOLOGY INC				
APPROXIMATE METHODS IN DYNAMIC STABILITY OF FLEXIBLE MECHANISMS				
REVSSELAER POLYTECHNIC INSTITUTE	TADJBAKASH	N 36 03/02/88 \$198,174	D NACHMAN 88-VA-126	
(SBIR) INNOVATIVE STORAGE METHODS AND SOLUTION-ADAPTIVE GRIDS FOR PIVOTE ELEMENT METHODS	BUCKMAN	N 06 05/02/88 \$4,930,870	NACHMAN 88-VA-140	
MAINSTREAM ENGINEERING CORPORATION				
(SBIR) STRAIN-RATE SENSOR DEVELOPMENT	BARBER	N 6 02/03/88 \$49,426	NACHMAN 88-VA-154	
IAP RESEARCH, INC.				
(SBIR) RESEARCH INSTRUMENTATION FOR HIGH RESOLUTION RESOLUTION SURFACE SHAPE & DEFLECTION MEASUREMENT	KERN	N 6 02/03/88 \$49,982	NACHMAN 88-VA-155	
ATLANTIC APPLIED RESEARCH				
SBIR DEVELOPMENT OF A LIGHTWEIGHT TACTICAL TOWER				
FANTOZZI COMPANY, INC.	FANTOZZI	N 06 03/03/88 \$155,728	NACHMAN 88-VA-177	
(SBIR) A STUDY OF NONCLASSICAL FLOW-INDUCED RESPONSES OF A LIFTING SURFACE DUE TO LOCALIZED DAMAGE OR DISTURBANCES	HONG	N 06 03/03/88 \$49,946	NACHMAN 88-VA-178	
INTELLIGENT SIGNAL PROCESSING				
SBIR TRANSDUCER INDUCED ANOMALIES ON NONLINEAR COMPUTATIONAL				

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
ANALYSIS AND MODELING TECHNIQUES INTELLIGENT SIGNAL PROCESSING	HONG JAE	10/03/88 \$49,923	NACHMAN 88-NA-193	
INVERSE DESIGN AND OPTIMIZATION OF AERODYNAMIC CONFIGURATIONS	GEORGE DULIKRAVICH	N 24 15/03/88 \$197,705	NACHMAN 88-NA-197	
PENNSYLVANIA STATE UNIVERSITY				
FINITE ELEMENT ANALYSIS OF COMPOSITE SHELLS RESEARCH PROSPECTUS	ANTHONY PALAZOTTO	N 38 19/03/88 \$203,924	A NACHMAN 88-NA-205	\$60,025 01/07/88 \$203,924
AIR FORCE INSTITUTE OF TECHNOLOGY				
(SBIR) ANTI-SOUND ACTIVE CONTROL OF COMBUSTION INSTABILITY IN RAMJET JUMP COMBUSTORS FLOW INDUSTRIES INC	SURESH MENON	N 06 05/01/88 \$56,214	TISHKOFF 88-NA-073	
(SBIR) AN INSTRUMENT FOR THE SIMULTANEOUS MEASUREMENT OF VELOCITY TEMPERATURE AND DENSITY OF UNSEEDED AIR-FLOWS ANALATJM INC	GABRIEL LAUFER	N 06 15/01/88 \$49,808	A TISHKOFF 88-NA-079	\$49,808 15/07/88 \$49,808
(SBIR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPERSONIC REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	TAMIT CHITSONBOON	N 06 15/01/88 \$49,206	TISHKOFF 88-NA-036	
(SBIR) IMPROVED PARABOLIZED NAVIER-STOKES (PNS) ALGORITHM FOR SUPERSONIC REACTING FLOWS VIGYAN RESEARCH ASSOCIATES INC	TAMIT CHITSONBOON	N 06 20/01/88 \$49,206	TISHKOFF 88-NA-112	
(SBIR) MEASUREMENT OF THREE-DIMENSIONAL TEMPERATURE AND VELOCITY FIELDS USING HOLOGRAPHY SCIENTIFIC RSCH ASSOCIATES INC	ANIL TOLPADI	N 06 21/01/88 \$55,907	TISHKOFF 88-NA-115	
(SBIR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR SPRAYS ADVANCED FUEL RESEARCH INC.	PETER SOLMON	N 06 21/01/88 \$58,401	TISHKOFF 88-NA-117	
(SBIR) ADVANCED NON-INTRUSIVE DIAGNOSTICS FOR TURBULENT FLAMES ADVANCED FUEL RESEARCH INC.	PETER SOLMON	N 06 21/01/88 \$52,141	TISHKOFF 88-NA-119	
(SBIR) A NON-INTRUSIVE OPTICAL TECHNIQUE FOR SIMULTANEOUS		N 06		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
MULTIPOINT TEMPERATURE MEASUREMENTS IN FLAMES (PC-080) PHYSICAL SCIENCES INC	ALLEN MARK	21/01/98 \$49,980	TISHKOFF 88-VA-119	
(S3IR) KINETIC MODELING OF SOOT FORMATION IN MULTICOMPONENT FUEL COMBUSTION ADVANCED FUEL RESEARCH INC.	SERIO MICHAEL	N 06 21/01/98 \$72,718	TISHKOFF 88-NA-120	
TURBULENT MIXING IN EXPONENTIAL TRANSVERSE JETS UNIV OF WASHINGTON	BREIDENTHAL ROBERT	R 24 03/02/88 \$63,997	A TISHKOFF 88-VA-127	\$63,997 01/09/89 \$130,994
COMBUSTION KINETICS RELATED TO SUPERSONIC ARMY ARMAMENT RED CMO/BALLISTICS RSCH LA	MIZIOLEK ANDRZEJ	N 05 04/02/89 \$158,000	TISHKOFF 88-NA-128	
STABILITY OF A REACTING GASEOUS SHEAR LAYER MASSACHUSETTS INSTITUTE OF TECHNOLOGY	LANDAHL MARTEN	N 12 04/02/88 \$111,898	D TISHKOFF 88-NA-139	
A STUDY OF OBLIQUE DETONATIONS FOR SUPERSONIC COMBUSTION UNIV OF CONNECTICUT	DABORA ELI	N 24 17/02/88 \$196,370	TISHKOFF 88-NA-144	
DENSE-SPRAY STRUCTURE AND PHENOMENA UNIV OF MICHIGAN	FAETH GERARD	R 12 17/02/98 \$110,000	A TISHKOFF 88-VA-147	\$110,000 15/07/98 \$110,000
S3IR KINETICS AND INHIBITION OF SOOT FORMATION PHYSICAL SCIENCES INC	RAWLINS W	N 06 01/03/88 \$49,998	TISHKOFF 88-VA-159	
S3IR FT-IR EMISSION AND TRANSMISSION TOMOGRAPHY FOR COMBUSTION DIAGNOSTICS ADVANCED FUEL RESEARCH INC.	SOLJMON PETER	N 06 01/03/98 \$64,532	TISHKOFF 88-NA-160	
(S3IR) PROPULSION (LIQUID ATOMIZATION) VERITAY TECHNOLOGY, INC.	TALLEY ROBERT	N 6 02/03/88 \$49,994	TISHKOFF 88-VA-166	
S3IR RADIATIVE IGNITION AND FLAMEHOLDING FOR SUPERSONIC COMBUSTORS		N 06		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
PRINCETON SCIENTIFIC ENTERPRISE, INC.	BLAIR	09/03/88 \$50,000	TISHKOFF 88-NA-175	
SBIR DEMONSTRATION OF THE DELIQUE DETONATION WAVE FOR HYPERSONIC PROPULSION ASTRON RESEARCH & ENGINEERING	NAKAMURA	N 06 09/03/88 \$77,715	A TISHKOFF 88-NA-176	\$77,715 15/07/88 \$77,715
SBIR CATALYTIC COMBUSTION FOR IMPROVED IGNITION AND FLAME STABILITY PRECISION COMBUSTION, INC.	PFEFFERLE	N 06 09/03/88 \$50,000	TISHKOFF 88-NA-181	
SBIR COLLOIDAL DYNAMICS SIMULATIONS OF HIGHLY VISCOUS CONCENTRATED FUEL SLURRIES (PE-106) METAMATIX INC.	WILEMSKI	N 06 09/03/88 \$49,991	TISHKOFF 89-NA-192	
SBIR HEAT FLUX GAGE DEVELOPMENT VATELL CORPORATION	LANGLEY	N 06 10/03/88 \$48,507	TISHKOFF 89-NA-198	
SBIR FULLY AUTOMATIC CALIBRATION SYSTEM DOWLAND-BACH CORPORATION	SELBRIDGE	N 06 10/03/88 \$91,200	TISHKOFF 89-NA-190	
SBIR DEVELOPMENT OF AN AUTOMATED VAPOR PRESSURE MEASURING INSTRUMENT ROCKY RESEARCH	LANGELIERS	N 06 10/03/88 \$50,000	TISHKOFF 88-NA-191	
SBIR INVESTIGATION OF THRUST AUGMENTATION METHODS WOODSIDE GROUP, INC.	OLIVER	N 06 10/03/88 \$49,832	TISHKOFF 89-NA-194	
(SBIR) A NON-INVASIVE LAMINAR TO TURBULENT FLOW DETECTOR CONTINJUM DYNAMICS, INC.	BILANIN	N 6 14/03/88 \$49,537	TISHKOFF 88-NA-196	
THE MODELING OF DROP-CONTAINING TURBULENT EDDIES JET PROPUSSION LABORATORY	BELLAN	N 12 24/03/88 \$63,900	TISHKOFF 88-NA-209	
(SBIR) TWO STEP DETAILED NUMERICAL STUDY OF NONLINEAR CONCRETE-	JOSETTE	N 06		

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REAR INTERACTION WEIDINGER ASSOCIATES	NELSON IVAN	19/01/88 \$50,017	WU 88-NA-104	
STRUCTURAL OPTIMIZATION OF SANDWICH COMPOSITE SHELLS TO VARIOUS LOADINGS UNIV OF DELAWARE	VINSON JACK	N 24 04/02/88 \$137,452	WJ 88-NA-129	
(CBIR) TRACKING AND LOCATING FRACTURES AWAY FROM BOREHOLE IN A ROCK MASS VISTA RESEARCH CORPORATION	DELA CRJZ RODOLFO	N 06 04/02/88 \$50,000	WJ 88-NA-134	
(CBIR) A RATE-SENSITIVE CONTINUUM DAMAGE MODEL FOR GEOMATERIALS BERKELEY APPLIED SCIENCE & ENGR.	PANAHANDEH M	N 06 04/02/88 \$49,441	WJ 88-NA-135	
STATISTICAL PHYSICS ANALYSIS OF ROCK AND CONCRETE DAMAGE RESPONSE SOREQ	JAESER ZEEV	N 36 11/02/88 \$320,582	WU 88-NA-141	
THE CONTINUING ACTIVITIES OF THE US NATIONAL COMMITTEE FOR ROCK MECHANICS DEPT OF THE INTERIOR	CHAMBERLAIN PETER	N 07 22/02/88 \$22,500	WJ 88-NA-156	\$22,500 01/03/88 \$22,500
A STUDY OF FRACTURE PROCESSES IN CONCRETE USING LASER HOLOGRAPHY NORTHWESTERN UNIVERSITY	SHAH SURENDRA	N 14 03/03/88 \$116,149	WU 88-NA-157	
TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES DRA JAG INDUSTRIES	HOLT ALBERT	N 06 07/03/88 \$50,000	WJ 88-NA-172	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TST AMT
FUNDAMENTAL STUDIES OF FRICTION, LUBRICATION AND WEAR BY ATOMIC FORCE MICROSCOPY TOTAL BUSINESS MACHINE CORP	MCCLELLAND GARY	N 12 11/01/88 \$80,000	BURGGRAF 88-NC-072	
STUDIES OF LIQUID/SOLID INTERFACES BY NONLINEAR SPECTROSCOPY COLUMBIA UNIVERSITY	EISENTHAL KENNETH	N 12 11/01/88 \$110,311	BURGGRAF 88-NC-073	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY COEVAPORATION OF FLUORIDES BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 89-NC-099	
IMPROVED DUCTILITY IN MELT SPUN HTSC RIBBON/WIRE: YR/SU-BA-CU ALLOYS OF NOBLE METALS BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 88-NC-090	
SIMPLIFIED FABRICATION OF STABLE HIGH TEMPERATURE SUPERCONDUCTING FILMS, BY PULSED LASER EVAPORATION OF THE FLUORINATED 1-2-3 COMPOU BELTRAN ASSOCIATES INC	SIMO CONSTANCE	N 06 14/01/88 \$50,000	BURGGRAF 89-NC-091	
SCANNING TUNNELING MICROSCOPE STUDIES OF FACETING UNIVERSITY OF MARYLAND	WILLIAMS ELLEN	N 12 01/02/88 \$94,147	BURGGRAF 88-NC-113	
DYNAMICS OF GAS-SURFACE INTERACTIONS UNIV OF CHICAGO	SIBENER STEVEN	N 12 03/02/88 \$135,395	A BURGGRAF 88-NC-130	\$65,094 01/05/89 \$497,741
MECHANISMS OF REACTIVE ETCHING PRINCETON UNIVERSITY	BERNASEK STEVEN	R 12 05/02/88 \$68,550	A BURGGRAF 88-NC-137	\$69,650 01/05/88 \$68,550
NEW MATERIALS APPROACHES TO TRIPOLOGY: THEORY AND APPLICATIONS MATERIALS RESEARCH SOCIETY	POPE LARRY	N 12 17/02/98 \$5,000	A BURGGRAF 89-NC-146	\$5,000 01/03/89 \$5,000
ELECTRONIC INTERACTIONS OF DIRECTED PHOTON BEAMS WITH SURFACES VANDERBILT UNIVERSITY	TOLK NORMAN	N 12 23/03/88 \$112,761	A BURGGRAF 89-NC-149	\$113,000 01/06/88 \$350,900

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INSTITUTION

INVESTIGATOR

SURFACE SPECIES IN TRIPOLOGY

UNIV OF ILLINOIS

SELLMAN

ANDREW

UTILIZATION OF ATOMIC MAGNETO-OPTICAL ROTATION EFFECT SPECTROMETRY
FOR THE ANALYSIS OF REFRACTORY MATERIALS
NEW MEXICO STATE UNIVERSITY

RAYSON

GARY

ENERGY AND CHEMICAL CHANGE

RICE UNIVERSITY

KINSEY

JAMES

LARGE MOLECULAR BIMETALLIC SUBSTITUTED CLUSTERS AND THEIR MATERIAL
PROPERTIES: POSSIBLE USE IN SILICIDE METALLIZATION
UNIV OF ILLINOIS

TEC

BOON

FAST YET ACCURATE METHODS TO CALCULATE CROSS SECTIONS AND RATE CON
STANTS FOR ELASTIC AND REACTIVE COLLISIONS
YALE UNIVERSITY

CPDSS, JR.

R. JAMES

THEORETICAL STUDY OF THE VIBRATIONAL RELAXATION OF IONS

BROWN UNIVERSITY

MARICO

M. MATTI

STATE-RESOLVED REACTION DYNAMICS

STANFORD UNIVERSITY

ZAPE

RICHARD

FUNDAMENTAL STUDIES ON FREE RADICAL SURFACE INTERACTIONS

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DAVID

OXIDATION, NITRATION AND FLUORINE ETCHING OF Si

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CARTER

EMILY

ANALYTICAL METHODS USING SLATER-TYPE ORBITALS IN QUANTUM CHEMISTRY

N 12

TYPE/MONTHS
RECEIVED
AMOUNT

STATUS
PROGRAM MANAGER
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INITIATE
START DATE
TOT AMT

N 12
23/02/88
\$114,900

BURGGRAF
88-NC-151

N 12
29/03/88
\$59,691

D
BURGGRAF
88-NC-155

N 12
20/01/88
\$45,937

DAVIS
88-NC-096

N 12
22/01/88
\$131,206

DAVIS
88-NC-099

N 12
26/01/88
\$108,948

DAVIS
88-NC-102

N 12
29/01/88
\$54,146

DAVIS
88-NC-103

R 12
01/02/88
\$361,593

DAVIS
88-NC-112

N 12
02/02/88
\$132,418

DAVIS
88-NC-116

N 12
02/02/88
\$90,321

DAVIS
88-NC-117

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FLORIDA A&M UNIVERSITY	JONES	02/02/88 \$98,879	DAVIS 83-NC-123	
FRONTIER TRANSFORM MASS SPECTROSCOPIC STUDIES OF MASS SELECTED METAL AND SEMICONDUCTOR CLUSTERS AND THEIR REACTIONS OHIO STATE UNIVERSITY	MILLER TERPY	N 12 02/02/88 \$128,879	DAVIS 83-NC-124	
DYNAMICS, SPECTROSCOPY AND ELECTRONIC PROPERTIES OF SURFACES AND SOLIDS STATE UNIVERSITY OF NEW YORK	GEORGE THOMAS	N 12 05/02/88 \$158,000	DAVIS 83-NC-135	
NUMERICAL STUDY OF HYDRATING NITROGEN TETROXIDE LAMINAR DIFFUSION FLAMES IN A BURKE-SCHUMANN CONFIGURATION UNIV OF CALIFORNIA	SMITH OWEN	N 12 08/02/88 \$50,000	D DAVIS 88-NC-138	
CALCULATIONS OF KINETIC DATA FOR PROCESSES LEADING TO UV SIGNATURE CHEMICAL DYNAMICS CORPORATION	SWAMINATHAN P	N 06 10/03/88 \$49,862	DAVIS 83-NC-159	
DEVELOPMENT OF A SLANTWISE CONVECTIVE PARAMETERIZATION SCHEME FOR AN OPERATIONAL MESOSCALE NUMERICAL WEATHER PREDICTION SYSTEM MESOSCALE ENVIRON SIMUL & OPER INC	V. MOHAN NARYAMPURU	N 06 07/01/88 \$49,368	KOERMER 83-NC-070	
OPTIMAL FORMULATION OF PLANETARY BOUNDARY LAYER (PBL) PARAMETERIZATION FOR MESOSCALE NUMERICAL WEATHER PREDICTION (NWP) MASSACHUSETTS TECHNOLOGICAL LABORATORY	J CHANG	N 06 12/01/88 \$49,380	KOERMER 86-NC-075	
ATMOSPHERIC MESOSCALE MODEL DEVELOPMENT ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	NEHFKORN THOMAS	N 06 12/01/88 \$45,230	KOERMER 88-NC-076	
APPLICATIONS FOR AN AQUEOUS GAS SCRAMBLER FOR THE MEASUREMENT OF AMMONIA AEROSOLS VIGYAN RESEARCH ASSOCIATES INC	MARINARO, JP RALPH	N 06 13/01/88 \$50,000	KOERMER 88-NC-079	
IN-SITU ATMOSPHERIC DRONE MEASUREMENTS WITH THE TUNGSTIC ACID TECHNIQUE VIGYAN RESEARCH ASSOCIATES INC	MARINARO, JP RALPH	N 06 13/01/88 \$50,000	KOERMER 88-NC-080	
IN-SITU ATMOSPHERIC DRONE MEASUREMENTS WITH THE AMULGAR		N 06		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
SENSOR METHOD VIVIAN RESEARCH ASSOCIATES INC	MARINARD, JR RALPH	13/01/88 \$50,000	KOERMER 98-NC-091	
APPLICATION OF THE TUNSTED ACID TECHNIQUE FOR DETECTION OF AMMONIA AEROSOLS VIVIAN RESEARCH ASSOCIATES INC	MARINARD, JR RALPH	N 06 13/01/88 \$50,000	KOERMER 99-NC-092	
ULF RECEIVER/MAGNETOMETER CENTER FOR REMOTE SENSING	GANGULY SUMAN	N 06 13/01/88 \$49,406	KOERMER 89-NC-093	
IMPROVED WIND PROFILER CENTER FOR REMOTE SENSING	GANGULY SUMAN	N 06 13/01/88 \$49,679	KOERMER 98-NC-094	
ON THE USE OF MULTIPROCESSING COMPUTERS FOR GLOBAL NUMERICAL WEATHER PREDICTION ATMOSPHERIC AND ENVIRONMENTAL RESEARCH	HOFFMAN ROSS	N 06 13/01/88 \$44,360	KOERMER 99-NC-095	
PREDICTABILITY MEASURES OF ATMOSPHERIC GRAVITY WAVE STATES PHYSICAL DYNAMIC INC	WEST BRUCE	N 06 13/01/88 \$49,975	KOERMER 88-NC-096	
MICROBURST/WINDSHEAR WARNING SYSTEM AIRBORNE RESEARCH ASSOCIATES	MARKSON RALPH	N 06 14/01/88 \$50,000	KOERMER 89-NC-097	
SENSITIVE AEROSOL ELECTROMETER LADUNA RESEARCH LAB	LOOS HENDRIGUS	N 06 19/01/88 \$65,245	KOERMER 98-NC-094	
IMPROVED GLOBAL SPECTRAL MODEL MOISTURE AND CLOUD FORECASTING DUE TO INITIALIZATION BY OBSERVED OUTGOING LONGWAVE RADIATION FLORIDA STATE UNIVERSITY	WEINER ALLAN	N 12 22/01/89 \$50,000	KOERMER 92-NC-098	
IONOSPHERIC ELECTRIC FIELDS, CURRENTS AND JULE HEATING AT HIGH LATITUDES NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	ARDEHL HERBERT	N 4 09/02/89 \$2,000	A KOERMER 99-NC-139	\$2,000 01/03/89 \$2,000
NON-SUPERCELLULAR TORNADO		N 12		

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UNIV OF CALIFORNIA	WAKINDO	10/02/88 \$53,300	KOERMER 88-NC-140	
MESOSPHERIC/THERMOSPHERIC INFRARED AERODYNAMIC AND STRUCTURE INVESTIGATION UTAH STATE UNIVERSITY	ULWICK	N 12 10/02/88 \$109,595	KOERMER 88-NC-141	
STRAN-2: ATMOSPHERIC EXTINCTION EVALUATION CODE FOR VISIBL, 3-5 (UM), AND 8-12 (UM) SPECTRAL REGIONS PENNSYLVANIA STATE UNIVERSITY	TOMIYAMA	N 12 15/02/89 \$78,034	KOERMER 88-NC-145	
SENSITIVITY EVALUATION PROGRAM FOR LOWTRAN-7 AND FASCOD-3 PENNSYLVANIA STATE UNIVERSITY	TOMIYAMA	N 08 22/02/88 \$63,535	KOERMER 88-NC-143	
Mesoscale Severe Weather Development Under Orographic Influences COLORADO STATE UNIVERSITY	REITER	N 12 29/02/88 \$155,759	KOERMER 88-NC-152	
TRACE ELEMENTS IN CLOUD- AND PRECIPITATION-WATER MASSACHUSETTS INSTITUTE OF TECHNOLOGY	FAY	N 12 29/02/88 \$142,143	KOERMER 88-NC-153	
WAS BOARD ON ATMOSPHERIC SCIENCE AND CLIMATE (BASC) NOAA - R AND D ATMOSPHERIC PROGRAMS	HECHT	N 12 29/02/88 \$3,000	A KOERMER 88-NC-154	\$30,000 01/10/89 \$30,000
LABORATORY EXPERIMENTS TO INVESTIGATE THE ROLE OF GRAVITY WAVE/ SHEAR INTERACTIONS IN GLOBAL ATMOSPHERIC CIRCULATION NORTHWEST RESEARCH ASSOCIATES, INC.	DELISI	N 06 10/03/89 \$52,744	KOERMER 88-NC-158	
EXPERIMENT ON RAPIDLY INTENSIFYING CYCLONES OVER THE ATLANTIC (ERICA) OFFICE OF NAVAL RESEARCH	KREITZBERG	N 12 17/03/88 \$5,000	KOERMER 88-NC-152	
ENVIRONMENTAL TECHNICAL EXCHANGE CONFERENCE PLANNING ACTIVITIES ARMY ENGINEER WATERWAYS EXPERIMENT STA	MUSKY	N 06 22/03/88 \$5,000	A KOERMER 88-NC-153	\$5,000 01/04/88 \$5,000
DEVELOPMENT OF PRACTICAL AND TECHNIQUES FOR PREDICTION OF THE		R 12		

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PROPERTIES AND BEHAVIOR OF MATERIALS UNIV OF TEXAS	DEMAR MICHAEL J. S.	04/01/88 \$166,653	MATUSZKO 88-NC-056	
NEW METHODOLOGY FOR FLUOROCARBON SYNTHESIS UNIV OF IOWA	BUXTON DONALD	N 12 05/01/88 \$130,676	MATUSZKO 89-NC-058	
SYNTHESIS OF NEW METASTABLE ULTRAHARD MATERIALS KMS FUSION INC	WIXOM MICHAEL	N 05 14/01/88 \$49,992	MATUSZKO 89-NC-098	
SYMPOSIUM ON METALS IN BIOCHEMISTRY AND MATERIALS SCIENCE GEORGIA UNIV RESEARCH FOUNDATION INC	KING R. BRUCE	N 12 25/01/88 \$24,142	MATUSZKO 89-NC-100	
ORGANOSILICON MONOMERS AND POLYMERS: PRECURSORS TO SILICON-CONTAINING CERAMICS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	SEYFERTH DIETMAR	N 12 26/01/88 \$230,000	MATUSZKO 88-NC-103	
PRECURSOR DESIGN AND SYNTHESIS FOR ADVANCED OXIDE AND NITRIDE MATERIALS UNIV OF ARIZONA	WIGLEY DAVID	N 12 26/01/88 \$79,309	MATUSZKO 88-NC-104	
CHEMICAL REACTIONS AND PROPERTIES OF ORGANOSILICON COMPOUNDS RELATED TO NEW MATERIALS UNIV OF WISCONSIN	WEST ROBERT	N 12 28/01/88 \$321,499	MATUSZKO 83-NC-109	
NEW N-H BOND FORMING REACTIONS. SYNTHESIS OF UNSATURATED NITROGEN COMPOUNDS OF THE MAIN GROUP AND TRANSITION ELEMENTS. EXPLORATORY UNIV OF CALIFORNIA	TROGLER WILLIAM	N 12 28/01/88 \$124,029	MATUSZKO 89-NC-110	
NEW INORGANIC-ORGANIC POLYMER SYSTEMS PENNSYLVANIA STATE UNIVERSITY	ALLOCK HARRY	N 12 02/02/89 \$178,115	MATUSZKO 88-NC-121	
1988 GORDON RESEARCH CONFERENCE ON ELASTOMERS UNIV OF RHODE ISLAND	A GONICKSHANK	N 12 03/02/89 \$5,000	MATUSZKO 88-NC-129	
DEVELOPMENT OF CHIRAL POLYSILOXANES FOR ENANTISELECTIVE		N 12		

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SUPERCRITICAL FLUID CHROMATOGRAPHY BETHAM YOUNG UNIVERSITY	ROSSITER	11/02/83 \$89,557	MATUSZKO 88-NC-143	
NOVEL MATERIALS OF EXTENDED METALLACAPROPANE SYSTEMS SOUTHERN METHODIST UNIVERSITY	WOSMANE	N 12 12/02/89 \$51,582	MATUSZKO 89-NC-144	
STRUCTURE AND PROPERTIES OF NOVEL COMPOUNDS OF SILICON, GERMANIUM & ANO TEN UNIV OF TEXAS	MICHL JOSEF	R 12 01/03/88 \$100,000	MATUSZKO 89-NC-155	
SILICON NITRIDE PRECURSORS MC CHEMICAL RESEARCH & SERVICE CORP.	WSU MING-TA	N 06 10/03/88 \$62,177	MATUSZKO 88-NC-160	
PBT, PEO-BASED HYBRID POLYMERIC MATERIALS WITH NONLINEAR OPTICAL PROPERTIES NORTHWESTERN UNIVERSITY	MAPKS TOBIN	R 12 04/01/88 \$162,000	A ULRICH 89-NC-055	\$75,000 01/07/88 \$150,000
AN X-RAY AND NEUTRON SCATTERING STUDY OF POLYMER BLENDS UNIVERSITY OF MICHIGAN	ULLMAN ROBERT	N 12 05/01/88 \$165,103	ULRICH 89-NC-057	
ORDERED POLYMER NONLINEAR OPTICAL MATERIALS FOSTER-MILLER INC	DRUY MARK	N 12 05/01/88 \$188,000	A ULRICH 89-NC-059	\$188,000 01/07/88 \$376,000
HIGH JC SUPERCONDUCTING OXIDES VIA A THREE DIMENSIONAL TEMPLATE FOSTER-MILLER INC	LUSIGNEA RICHARD	N 06 07/01/88 \$64,313	ULRICH 89-NC-071	
SINGLE CRYSTAL SUPERCONDUCTING FIBERS OF LUBAZOUBOBY AND YBA SCURON-Y LASERGENICS CORPORATION	SCHLECHT RICHARD	N 06 12/01/88 \$49,498	ULFICH 89-NC-077	
TECHNOLOGICALLY USEFUL NLO FILMS OF POLYPHENYLENE VINYLENE AND IDS COPOLYMERS FOSTER-MILLER INC	CPUY MARK	N 06 12/01/88 \$65,733	ULRICH 89-NC-078	
CRYSTALLIZATION OF NANOCOMPOSITE CLASSES MADE BY THE SSS PROCESS		N 12		

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PENNSYLVANIA STATE UNIVERSITY	ROY	21/01/88 \$153,530	ULRICH 88-NC-037	
ORGANOMETALLIC PRECURSOR ROUTES TO SI-C-AL-O-N				
RENSSELAER POLYTECHNIC INSTITUTE	INTERRANTE	N 12 27/01/88 \$114,591	ULRICH 88-NC-125	
CHEMICAL PROCESSING OF CERAMIC AND COMPOSITES				
UNIVERSAL ENERGY SYSTEMS INC	TAI-IL HAH	N 12 02/02/88 \$235,548	ULRICH 89-NC-126	
MOLECULAR OPTICS: NONLINEAR OPTICAL PROCESSES IN ORGANIC AND POLYMERIC CRYSTALS AND FILMS UNIV OF PENNSYLVANIA	GARITO	R 12 03/02/88 \$545,037	A ULRICH 88-NC-132	\$175,000 01/07/88 \$1,500,000
PROCESSING, FABRICATION, CHARACTERIZATION, AND DEVICE DEMONSTRATION OF HIGH TEMPERATURE SUPERCONDUCTING CERAMICS BOEING CO	THOMAS	N 12 05/02/88 \$372,279	ULRICH 88-NC-136	
FRACTAL ASPECTS OF MATERIALS: DISORDERED SYSTEMS				
MATERIALS RESEARCH SOCIETY	WEITZ	N 12 17/02/88 \$3,000	ULRICH 89-NC-147	
ORGANIC AND POLYMERIC NONLINEAR OPTICAL MATERIALS				
MINNESOTA MINING AND MANUFACTURE CO.	GERBI	N 06 23/02/88 \$5,900	A ULRICH 88-NC-150	\$5,000 15/05/88 \$5,000
TRACTABLE HIGH PERFORMANCE POLYMERS				
UNIV OF CALIFORNIA	SMITH	N 12 03/03/88 \$403,500	ULRICH 89-NC-157	
MOLECULAR ENGINEERING, DYNAMICS OF ELECTRON TRANSPORT AND NONLINEAR OPTICAL INTERACTION IN LANGMUIR-BLODGETT FILMS ORGANIC STATE UNIVERSITY OF NEW YORK	PRASAD	R 12 15/03/88 \$5,432	ULRICH 89-NC-151	
STUDY OF SOL-GEL PROCESSING USING THE SPR OF MAGNETIC PROBE IONS				
RENSSELAER POLYTECHNIC INSTITUTE	MACCORNE	N 12 23/03/88 \$151,583	D ULRICH 88-NC-154	
MATERIALS SCIENCE AND ENGINEERING OF RIBBON-ROD POLYMERS				

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MATERIALS RESEARCH SOCIETY	ADAMS	29/03/88 \$21,000	ULRICH 83-NC-156	
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY ATOM SCIENCES, INC.	THOMNARD	N 06 19/01/88 \$56,555	WILKES 98-NC-095	
MULTI-ELECTRON AND COUPLED ATOM TRANSFER REACTION KINETICS AT ELEC TROCHEMICAL INTERFACES NORTHWESTERN UNIVERSITY	HUPP	N 12 26/01/88 \$127,959	WILKES 88-NC-101	
ELECTROCHEMICAL AND SPECTROSCOPIC STUDIES OF MOLTEN HALIDES UNIV OF TENNESSEE	MAMANTOV	N 12 27/01/88 \$185,369	WILKES 88-NC-106	
STRUCTURES, SPECTRA, AND THERMODYNAMICS OF DIALKYLMIDAZOLIUM HALOALUMINATES ARGONNE NATIONAL LABORATORY	SABOUNSI	N 12 01/02/88 \$100,000	WILKES 89-NC-111	
A QUANTITATIVE STUDY OF THE ELECTROCHEMICAL FORMATION OF SALT MONOLAYERS GEORGETOWN UNIVERSITY	DELEVIE	N 12 01/02/88 \$109,242	WILKES 93-NC-115	
SYNTHESIS, ION TRANSPORT AND THEORY OF SOLID POLYELECTROLYTES AND RELATED ROOM-TEMPERATURE MOLTEN SALT ELECTROLYTES NORTHWESTERN UNIVERSITY	RATNER	N 12 04/02/88 \$100,000	WILKES 88-NC-133	
PS CHEMICAL LASER STUDIES UNIV OF NEW HAMPSHIRE	WRIGHT	N 12 14/01/88 \$43,532	WJCARCZYK 89-NC-092	
STATE RESOLVED DYNAMICS OF ION-MOLECULE COLLISIONS IN A FLOWING AFTERGLOW UNIV OF COLORADO	LEONE	N 12 15/01/88 \$218,140	WJCARCZYK 88-NC-093	
INFRARED SPECTROSCOPY AND DYNAMICS OF VAPOR PHASE COMPLEXES OF MET ALS UNIV OF NORTH CAROLINA	MILLER	N 12 23/01/88 \$170,955	WJCARCZYK 88-NC-107	
A VISIBLE WAVELENGTH CHEMICALLY-DRIVEN ANTI-STOKES RAMAN LASER		N 12		

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DESIGN EDM CORPORATION	CARSON	01/02/88 \$104,816	WDDARCZYK 88-NC-114	
PHOTODISSOCIATION DYNAMICS OF CLUSTER IONS				
UNIV OF CALIFORNIA	BOWERS	N 12 02/02/88 \$197,542	WDDARCZYK 89-NC-118	
VACUUM ULTRAVIOLET STUDIES OF MOLECULAR DYNAMICS				
CORNELL UNIVERSITY	HOUSTON	N 12 02/02/88 \$141,652	WDDARCZYK 88-NC-119	
GAS-SURFACE INTERACTIONS NEAR DISSOCIATION THRESHOLD				
UNIV OF SOUTHERN CALIFORNIA	WITTIG	N 12 02/02/88 \$100,000	WDDARCZYK 88-NC-120	
STATE-SPECIFIC ENERGY TRANSFER AND CHEMILUMINESCENT REACTIONS				
SRI INTERNATIONAL	CROSLLEY	N 12 02/02/88 \$209,534	WDDARCZYK 89-NC-125	
LASER DOUBLE RESONANCE SPECTROSCOPY OF OH AND CH IN FLAMES				
UNIV OF CALIFORNIA	DAILY	N 12 03/02/88 \$163,645	WDDARCZYK 88-NC-131	
STATE-RESOLVED COLLISIONAL ENERGY TRANSFER IN HIGH VIBRATIONALLY EXCITED POLYATOMIC MOLECULES				
UNIV OF WISCONSIN	CRIM	N 12 04/02/88 \$123,923	WDDARCZYK 88-NC-134	
TRANSIENT BEHAVIORS IN CHEMICAL REACTIONS				
UNIV OF CALIFORNIA	PIMENTEL	N 12 11/02/88 \$164,155	WDDARCZYK 89-NC-142	
CHEMIELECTRON AND PHOTOELECTRON SPECTROSCOPY OF METALS AND METAL OXIDES OF IMPORTANCE IN THE UPPER ATMOSPHERE				
UNIV OF SOUTHAMPTON	DYKE	N 12 02/03/88 \$54,360	WDDARCZYK 89-NC-156	

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USING NEURAL NETWORK TO LEARN FEATURES FOR COMPUTER VISION CLARKSON UNIVERSITY	KOCH	N 12 04/01/88 \$64,930	GILES 98-NE-038	
ALGORITHM/ARCHITECTURE STUDY ON ARTIFICIAL NEURAL NETS PRINCETON UNIVERSITY	KUNG	N 36 04/01/88 \$300,553	GILES 88-NE-040	
STABILITY AND ADAPTION OF NEURAL NETWORKS UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	KOSKO	N 36 28/01/88 \$357,000	A GILES 88-NE-048	\$116,700 01/07/88 \$357,000
MULTI-CHANNEL, FAULT TOLERANT OPTICAL COMM TECH FOR INCREASED PERFORMANCE, THROUGHPUT, AND CAPACITY: SIMULTANEOUS VOICE, DATA PHOENIX DIGITAL CORPORATION	BROWN	N 06 01/02/88 \$47,391	GILES 88-NE-052	
M. F. MODULE CENTER FOR REMOTE SENSING	GANGULY	N 06 01/02/88 \$49,267	GILES 88-NE-053	
BOROPHOSPHOSILICATE GLASS AS AN OPTICAL INTERCONNECT IN AN INTEGRATED CIRCUIT COMPLEX HARVEY MECAM ASSOCIATES	MECHAM	N 06 01/02/88 \$50,325	GILES 88-NE-054	
PORTABLE M. F. SOUNDER CENTER FOR REMOTE SENSING	GANGULY	N 06 01/02/88 \$53,456	GILES 88-NE-055	
INVESTIGATIONS IN NONMONOTONIC REASONING ARTIFICIAL INTELLIGENCE RESCH INSTITUTE	BROWN	N 36 02/02/88 \$341,650	GILES 88-NE-056	
15TH ANNUAL INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE PENNSYLVANIA STATE UNIVERSITY	IPWIN	N 06 23/02/88 \$5,000	A GILES 98-NE-109	\$5,000 15/05/88 \$5,000
INTEGRATED OPTO-ELECTRONIC COMPUTING UNIV OF SOUTHERN CALIFORNIA	STEIER	N 07 23/02/88 \$65,000	A GILES 88-NE-111	\$65,000 01/07/88 \$65,000

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INSTITUTION

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TOT AMT

RESEARCH ON SPATIAL LIGHT MODULATORS WITH INTERNAL MEMORY

UNIV OF CALIFORNIA

WALPITA

L

N 24
25/02/88
\$207,976GILES
88-VE-116

GENERALIZED CONSTRAINT ENCODING IN CONNECTIONIST NETWORKS

NAVAL RESEARCH LABORATORY

GRIFFIN

RICHARD

N 06
29/02/88
\$53,500GILES
A
88-VE-117
\$53,500
01/04/88
\$53,500HIGHLY COMPACT MONOLITHIC INTEGRATED CIRCUITS FOR OPTICAL
COMPUTING AND INTERCONNECTION APPLICATIONS
UNIV OF SOUTHERN CALIFORNIA

FORREST

STEPHEN

N 36
04/03/88
\$488,539GILES
88-NE-123NEUROBIOLOGY AND SIMULATION OF NEURAL NETS FOR INVARIANT OBJECT
RECOGNITION
UNIV OF SOUTHERN CALIFORNIA

GAUDIOT

JEAN-LJCH

N 36
07/03/88
\$400,000GILES
A
88-VE-124
\$200,000
01/07/89
\$500,000DEVELOPMENT OF MULTIPLEXED HOLOGRAM MODELS DESCRIBING OPTICAL
INTERCONNECT AND MEMORY SYSTEMS
UNIV OF ARIZONA

KOSTUK

RAYMOND

N 36
08/03/88
\$258,427GILES
88-NE-125

AN OPTOELECTRONIC REALIZATION OF NEURAL NETWORK MODELS

CALIFORNIA INSTITUTE OF TECHNOLOGY

YAPIV

ANNON

N 12
30/03/88
\$296,307GILES
88-NE-131

IEEE CONFERENCE OF NEURAL INFORMATION PROCESSING SYSTEMS

JOHNS HOPKINS UNIVERSITY

TERRENCE

N 05
30/03/88
\$5,000GILES
88-NE-133DEFECT REDUCTION IN EPITAXIAL GROWTH USING SUPERLATTICE BUFFER
LAYERS

NORTH CAROLINA STATE UNIVERSITY

BEOAIR

R 30
04/01/88
\$412,000A
MALLOY
88-NE-035
\$131,000
01/04/89
\$412,000LIMITATIONS OF THE TRANSMISSION OF FAR-INFRARED LASER RADIATION
THROUGH CONDENSED MATTER
UNIV OF CALIFORNIA

ERDM

W

N 36
04/01/88
\$544,978MALLOY
88-NE-037

DEPOSITION OF KIV FILMS BY ATOMIC LAYER EPITAXY

N 36

TITLE (CONT.) INSTRUCTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
HUGHES RESEARCH LABORATORIES	ELWELL	04/01/88 \$532,394	MALLOY 88-NE-039	
POST VULCANIZATION HETEROEPIITAXIAL IN NON-LATTICE-MATCHING SYSTEMS				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	THOMPSON	R 18 04/01/88 \$136,000	A MALLOY 88-NE-042	\$136,000 01/04/88 \$135,908
MECHANICAL PROPERTIES OF SEMICONDUCTORS AND THEIR ALLOYS				
SPI INTERNATIONAL	SHER	R 36 28/01/88 \$573,991	MALLOY 88-NE-049	
MOVES OF 2D(SSE)/(CH)SS(X)-SCED(1-X) QUANTUM WELL LASERS				
EUROPEAN OFFICE OF AERO R&D AND DEVELOP	SMITH, LT COL, USAF LAREL	N 36 29/01/88 \$294,142	MALLOY 88-NE-051	
EMER/CORINTE HETEROSTRUCTURE				
ELECTRO-OPTIK CORPORATION	CHAN	N 06 11/02/88 \$57,721	MALLOY 88-NE-083	
PROCESS MODELING OF MOVCO GROWTH TECHNIQUE VIA NUMERICAL SIMULATION-APPLICATION TO GAAS, ALGAS AND INGAS SCIENTIFIC RESEARCH ASSOCIATES, INC.	MEYYAPPAN M	N 06 11/02/88 \$51,517	MALLOY 88-NE-034	
GAAS SPREADING RESISTANCE MEASUREMENT INSTRUMENT				
FOUR DIMENSIONS, INC	CHEN	N 05 11/02/88 \$50,000	MALLOY 88-NE-095	
ANALYSIS OF GROWTH-INDUCED INTERFACE ROUGHNESS EFFECTS ON HETEROSTRUCTURES DEVICES				
MICROTRONICS ASSOCIATES, INC.	COON	N 06 11/02/88 \$50,000	MALLOY 88-NE-086	
MULTI-HETEROSTRUCTURES BY ENERGY ION IMPLANTATION				
SPIRE CORPORATION	NAYAVAR	N 06 11/02/88 \$53,357	MALLOY 88-NE-037	
WUITE CARLS SIMULATION OF HOMOEPIITAXIAL AND HETEROEPIITAXIAL THIN FILM GROWTH DYNAMICS				
BERDYNE RESEARCH INC	CHARTER	N 06 11/02/88 \$49,327	MALLOY 88-NE-098	
LOW TEMPERATURE OPTICAL CONSTANTS OF PHOTOELECTRONIC MATERIALS				
		N 06		

TITLE TITLE (CONT.) SUBSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TST AMT
J. A. WOLLAM COMPANY	WOLLAM	11/02/83 \$50,000	MALLOY 88-NE-039	
ELECTRO-OPTIC POLARIZATION EFFECTS FROM HETEROJUNCTION STRUCTURES				
J. A. WOLLAM COMPANY	WOLLAM	N 06 11/02/88 \$50,000	MALLOY 88-NE-030	
GROWTH STUDIES OF METAL-METAL/SEMICONDUCTOR STRUCTURES				
CHEMICAL DYNAMICS CORPORATION	MURTHY	N 06 11/02/88 \$49,908	A MALLOY 88-NE-031	\$49,908 15/07/88 \$49,908
METAL-EPIITAXY				
CVJ EQUIPMENT CORPORATION	CHANDRAN	N 06 11/02/88 \$49,875	MALLOY 88-NE-032	
THERMOCHEMISTRY OF HYDROCARBON DECOMPOSITION AND RELATIONSHIP TO PROPERTIES OF PECVD DIAMOND FILMS CRYSTALLINITY	RAVIED	R 24 11/02/88 \$497,892	MALLOY 88-NE-033	
SELECTIVE-AREA EPITAXY OF GALLIUM ARSENIDE ON SILICON				
SPIRE CORPORATION	HAVEN	N 06 11/02/88 \$57,120	MALLOY 88-NE-035	
ELECTRICALLY CONDUCTING GRAPHITIC CARBON ULTRASTRUCTURES EMERGED IN DIAMOND SUBSTRATES DIAMOND MATERIAL INSTITUTE, INC.	KOBAYASHI	N 06 17/02/88 \$67,544	MALLOY 88-NE-103	
DESIGN OF A 300-MICRON SEVERAL MEV SCANNING ION MICROSCOPE FOR THREE-DIMENSIONAL MATERIAL CHARACTERIZATION NANOPTICS INC.	BAWENDRO	N 06 17/02/88 \$50,000	MALLOY 88-NE-104	
INSTRUMENT FOR NANOMETER LITHOGRAPHY BASED ON SCANNING TUNNELING MICROSCOPY QUANSCAN, INC.	WEST	N 06 17/02/88 \$49,596	MALLOY 88-NE-105	
INTERNATIONAL CONFERENCE ON NARROW GAP MATERIALS				
NORTH TEXAS STATE UNIVERSITY	SEILER	N 12 24/02/88 \$7,000	MALLOY 88-NE-115	
OPTICAL PROPERTIES OF THIN FILMS		R 24		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
PENNSYLVANIA STATE UNIVERSITY	VEDAM K	01/03/88 \$203,199	MALLOY 88-VE-118	
THERMODYNAMICS, KINETICS, & INTERFACE MORPH OF PHASE FORMATION REACTIONS AT METAL/TIN/ALUM PHOSPHIDE INTERFACES: BULK VS THIN- UNIV OF WISCONSIN	Y	N 36 01/03/88 \$398,620	MALLOY 88-NE-119	
DEVELOP AND ACCELERATOR MASS SPECTROMETRY FACILITY FOR TRACE IMPURITY CHARACTERIZATION IN ELECTRONIC MATERIALS NORTH TEXAS STATE UNIVERSITY	FLJOY	N 36 01/03/88 \$1,489,878	MALLOY 88-NE-120	
5TH INTERNATIONAL CONFERENCE ON HOT CARRIERS IN SEMICONDUCTORS		N 18 03/03/89 \$25,000	MALLOY 88-VE-121	
ARIZONA STATE UNIVERSITY	FERRY			
THE PHYSICS AND DYNAMICS OF SURFACE EMITTING LASER DIODES		N 36 04/03/88 \$450,000	A MALLOY 88-VE-122	\$50,000 01/05/88 \$450,000
LOCKHEED MISSILES & SPACE CO INC	WANG S			
MODULATION SPECTROSCOPY CHARACTERIZATION OF SEMICONDUCTOR MESOSTRUCTURES BROOKLYN COLLEGE OF CUNY	POLLAK	N 36 10/03/88 \$379,856	MALLOY 88-VE-127	
DISLOCATION PATTERNING AND DEFORMATION BANDS		N 36 04/02/88 \$502,453	ROSENSTEIN 88-VE-057	
MICHIGAN TECHNOLOGICAL UNIVERSITY	AIFANTIS			
ULTRASONIC INSTRUMENTATION TO CONTROL CERAMIC PROCESSING		N 36 05/02/89 \$53,297	ROSENSTEIN 88-VE-058	
INDUSTRIAL QUALITY INC	JONES			
DEVELOPMENT AND RESPONSE MODELING OF 3-D REINFORCED HYBRID MMC		N 36 05/02/88 \$49,356	ROSENSTEIN 88-VE-059	
DMA COMPOSITE SPECIALTIES, INC.	DOLGAY, JR			
DEVELOPMENT OF AN ISOTROPIC HIGH-SYMMETRY SOLID (IHSS)		N 36 05/02/88 \$67,375	ROSENSTEIN 88-NE-060	
INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS			
RESEARCH INSTRUMENTATION		N 36		

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RUTHERFORD RESEARCH	CHANDHURY	05/02/83 \$50,000	ROSENSTEIN 93-NE-051	
HIGH SYMMETRY COMPOSITES FABRICATED FROM RANDOM VGF AND THERMOPLASTICS APPLIED SCIENCE, INC.	BRITO	N 06 05/02/89 \$92,421	ROSENSTEIN 93-NE-052	
DEVELOPMENT OF A NEW BERYLLIUM/GRAPHITE-EPONY SANDWICH COMPOSITE ADVANCED COMPOSITE ENGINEERING, INC.	SUN	N 06 05/02/88 \$49,230	ROSENSTEIN 88-NE-053	
HIGH SYMMETRY STRUCTURAL COMPOSITES: ANALYTICAL DESIGN TOOL CONCEPT ANALYSIS CORPORATION	GLANCE	N 06 05/02/88 \$50,000	ROSENSTEIN 83-NE-054	
HIGH SYMMETRY RANDOM AGGREGATE MICROLAMINATE (RAM) STRUCTURAL COMPOSITES UTILITY POWER GROUP	CHANDRA	N 06 05/02/89 \$45,275	ROSENSTEIN 88-NE-055	
HIGHLY DRIEPTED FIBER REINFORCED CERAMIC COMPOSITES CERAMICS PROCESS SYSTEMS	HODGE	N 06 05/02/88 \$50,000	ROSENSTEIN 83-NE-056	
TETRAHEDRAL FRAMES FOR STRUCTURES AND COMPOSITES DBA JAG INDUSTRIES	HOLT	N 06 23/02/89 \$50,000	ROSENSTEIN 88-NE-107	
GRAIN BOUNDARY SOLUTE-HYDROGEN INTERACTIONS IN INTERGRANULAR HYDROGEN EMITTLEMENT MASSACHUSETTS INSTITUTE OF TECHNOLOGY	R	N 36 23/02/89 \$530,599	ROSENSTEIN 93-NE-112	
SURFACE-MODIFIED TITANIUM-ALUMINIDE ALLOYS CASE WESTERN RESERVE UNIVERSITY	WELCH	N 36 24/02/88 \$633,319	ROSENSTEIN 93-NE-113	
TRANSFORMATION TOUGHENING OF CERAMICS ROCKWELL INTERNATIONAL	MARSHALL	R 36 03/03/89 \$599,396	ROSENSTEIN 88-NE-126	
PORE STRUCTURE AND PERMEABILITY OF CEMENTITIOUS MATERIALS		N 12		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MATERIALS RESEARCH SOCIETY	SKALNY JAY	23/03/88 \$5,000	ROSENSTEIN 88-NE-129	
STRENGTHENING MECHANISMS, CREEP AND FATIGUE PROCESSES IN DISPERSION-STRENGTHENED TITANIUM ALLOYS UNIV OF CALIFORNIA	MUKHERJEE A	N 36 28/03/88 \$540,000	ROSENSTEIN 88-NE-130	
A FUNDAMENTAL UNDERSTANDING OF THE EFFECT OF ALLOYING ELEMENTS ON THE CORROSION RESISTANCE OF RAPIDLY SOLIDIFIED MG ALLOYS JOHNS HOPKINS UNIVERSITY	KRUGER JEROME	R 12 30/03/88 \$30,000	ROSENSTEIN 88-NE-132	
SUPERCONDUCTIVE ELECTRONICS - ASI		N 06 05/02/88 \$10,000	A WEINSTOCK 88-NE-057	\$10,000 15/03/88 \$10,000
NATIONAL SCIENCE FOUNDATION	ERDOZYA MICHAEL	N 06 05/02/88 \$59,956	WEINSTOCK 88-NE-058	
ONE ANGSTROM RESOLUTION POSITIONING SYSTEM FOR MATERIAL AND PROCESS DIAGNOSTIC APPLICATION SATECON TECHNOLOGY CORPORATION	HOCKEY RICHARD	N 06 05/02/88 \$52,400	WEINSTOCK 88-NE-059	
PULSED INTERFEROMETER FOR ACOUSTIC ATTENUATION AND VELOCITY MEASUREMENTS RTEC INC.	PETERSON GARY	N 06 03/02/88 \$50,136	WEINSTOCK 88-NE-070	
LEVEL NOE METHOD FOR ON-LINE MICROSTRUCTURAL QUALITY CONTROL OF HIGH PERFORMANCE FIBERS RAYMOSE CORP. OF AMERICA	ROSEMEIER RONALD	N 06 08/02/88 \$49,925	WEINSTOCK 88-NE-071	
ALL-OPTICAL MAGNETOMETER EMPLOYING DILUTED MAGNETIC INSULATOR (DMI) FOR UVS IMAGING SYSTEMS AMERICAN RESEARCH CORP. OF VIRGINIA	NIIMURA MASANOBU	N 06 08/02/88 \$49,995	WEINSTOCK 88-NE-072	
NEW SOLID-STATE IMAGING MEDIA FOR RAPID RADIOGRAPHIC INSPECTION QUANTEX CORPORATION	STOPTI GEORGE	N 06 08/02/88 \$50,000	WEINSTOCK 88-NE-073	
RESEARCH INSTRUMENTATION - X-RAY COMPUTERIZED TOMOGRAPHY TERRA TEK INC	SHARER JOHN	N 06		
SUPERCONDUCTIVE DEVICES FOR NONDESTRUCTIVE TESTING				

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PHYSICAL DYNAMIC INC	PODNEY	03/02/88 \$52,976	WEINSTOCK 88-NE-074	
A NON-CONTACT METHOD OF ACCURATELY MEASURING CRITICAL TEMPERATURES T(C), IN SUPERCONDUCTING MATERIALS: INSTRUMENT PROTOTYPE SILTRON INC	CONSTANCE	N 05 11/02/88 \$50,000	WEINSTOCK 88-NE-098	
ATOMIC FORCE MICROSCOPE FOR SURFACE AND INTERFACE ANALYSIS	LOWENSTINE	N 06 11/02/88 \$59,851	WEINSTOCK 88-NE-099	
INDUSTRIAL DETECTION TECHNOLOGY CORP.	MARTINIS	N 35 17/02/88 \$429,000	WEINSTOCK 88-NE-100	
MACROSCOPIC QUANTUM ELECTRONICS	MARTINIS	N 06 17/02/88 \$59,750	WEINSTOCK 88-NE-101	
NATIONAL BUREAU OF STANDARDS	MARTINIS	N 06 17/02/88 \$59,750	WEINSTOCK 88-NE-101	
HIGH T(C) SUPERCONDUCTING FILMS ON SILICON SUBSTRATES	CLINTON	N 06 17/02/88 \$59,750	WEINSTOCK 88-NE-101	
ENERGY SCIENCE LABORATORIES, INC.	JAMES	N 06 17/02/88 \$59,750	WEINSTOCK 88-NE-101	
ASSESSMENT OF JAPANESE R&D ACTIVITIES IN HIGH TEMPERATURE OXIDE SUPERCONDUCTORS ADVANCED MATERIALS TECHNOLOGY	KIM	N 04 19/02/88 \$15,000	A WEINSTOCK 88-NE-106	\$15,000 01/05/88 \$15,000
DEVELOPMENT OF SUPERCONDUCTOR POLYMER COMPOSITES	LEGERMAN	N 06 23/02/88 \$49,850	WEINSTOCK 88-NE-109	
ELECTRO-KINETIC SYSTEMS, INC.	BURTON	N 06 23/02/88 \$49,850	WEINSTOCK 88-NE-109	
A STUDY OF THE PHASE DIAGRAMS OF GAS MIXTURES FOR JOULE-THOMSON COOLERS STANFORD UNIVERSITY	LITTLE	N 36 23/02/88 \$210,000	D WEINSTOCK 88-NE-110	
THEORY OF SUPERCONDUCTIVITY IN OXIDES PRINCETON UNIVERSITY	ANDERSON	R 24 24/02/88 \$200,000	A WEINSTOCK 88-NE-114	\$100,000 01/07/88 \$200,000
THERMOCHEMICAL CHARACTERIZATION OF THE QUANTITARY OXIDE SUPERCONDUCTORS UNIV OF WISCONSIN	CHANG	N 35 31/03/88 \$464,980	D WEINSTOCK 88-NE-135	
MOVING GROWTH OF GAPS ON HIGH RESISTIVITY FLOAT ZONE SILICON		N 35	A	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
SUBSTRATES FOR HIGH-FREQUENCY DEVICES WESTINGHOUSE ELECTRIC CORPORATION	MESSHAM	27/01/88 \$600,378	WITT 88-NE-047	
DEVICE FOR RECORDING AND DIGITIZING HIGH-FIDELITY FILM IMAGES SIGMOLETTE TECHNOLOGY, INC	DWYER	N 06 08/02/88 \$49,976	WITT 88-NE-075	
INSTANTANEOUS AND INTEGRATING POWER MEASURING OSCILLOSCOPE INTERFACE ELECTRONIC DESIGN CONSULTANT	LEFFERSON	N 06 09/02/88 \$47,436	WITT 88-NE-076	
DETECTION AND IMAGING OF SUBSURFACE DEFECTS ON SILICON INTEGRATED CIRCUIT WAFERS WITH A NONDESTRUCTIVE, REAL-TIME THERMAL WAVE TECH THERMA-WAVE, INC	SMITH	N 06 08/02/88 \$50,000	WITT 88-NE-077	
VARIABLE ANGLE SPECTROSCOPIC ELLIPSOMETRY (VASE) FOR NONDESTRUCTIVE SEMICONDUCTOR SURFACE ANALYSIS J. A. WOOLLAM COMPANY	WOOLLAM	N 06 06/02/88 \$50,000	WITT 88-NE-078	
MICROSTRUCTURAL CHARACTERIZATION OF NON-LATTICE MATCHED HETEROEPITAXIAL STRUCTURES FRANKFUSE CORP. OF AMERICA	ROSEMEIER	N 06 08/02/88 \$50,136	WITT 88-NE-079	
EVALUATION OF HETEROJUNCTION INTERFACES USING ELECTRON BEAM ELECTROREFLECTANCE CHARLES EVANS & ASSOC.	HERMAN	N 06 08/02/88 \$49,509	WITT 88-NE-030	\$55,197 15/07/88 \$55,197
NUMERICAL MODELING OF TWO-TERMINAL QUANTUM WELL DEVICES SCIENTIFIC RSCH ASSOCIATES INC	GRUBIN	N 06 09/02/88 \$56,197	WITT 88-NE-031	
NEW HIGH-EFFICIENCY SCINTILLATOR DEVICE FOR SEM'S QUANTEX CORPORATION	STOFTI	N 06 09/02/88 \$49,985	WITT 88-NE-032	
A MONOLITHIC MICROWAVE NETWORK ANALYZER METRI WAVE INC.	WILLIAMS	N 06 11/02/88 \$49,725	WITT 88-NE-034	
RESEARCH INSTRUMENTATION		N 05		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TCT AMT
MILLIMETER WAVE TECHNOLOGY, INC.	FORSYTHE	11/02/88 \$50,000	WITT 88-NE-096	
RESEARCH INSTRUMENTATION FOR NONDESTRUCTIVE EVALUATION OF SEMICONDUCTOR MATERIALS UNISECT INC.	THOMPSON	N 06 11/02/88 \$51,000	WITT 88-NE-097	
DESIGN, FABRICATION, AND TESTING OF MILLIMETER POWER TRANSISTOR JUNSCAN, INC.	WANG	N 06 17/02/88 \$57,533	WITT 88-VE-132	
SUBMILLIMETER WAVE SPECTROSCOPY OF HETEROJUNCTION SUPERLATTICES PRINCETON UNIVERSITY	TSUI	N 36 31/03/88 \$402,285	A WITT 88-NE-134	\$129,374 15/07/88 \$576,935
A NEW APPROACH TO DESIGN OF ELECTRONIC WAVEFORM MULTIPLEXERS UNIV OF ILLINOIS	CHEN	N 24 17/03/88 \$159,004	WITTMANN 88-VE-128	

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PRINCIPLES OF CORTICAL FUNCTION UNIV OF CALIFORNIA	SHAW	N 12 23/01/88 \$3,523	PERRY 88-NL-054	
NEUROPHYSICAL AND BIOCHEMICAL MECHANISMS IN SYNAPTIC TRANSMITTER RELEASE NEW YORK UNIVERSITY MEDICAL CENTER	LLINAS	R 36 23/01/88 \$352,608	BERRY 88-NL-055	
BIOMECHANICAL MECHANISMS CONTROLLING BIOREACTIVITY OF ADRENAL CHROMAFFIN CELLS UNIV OF CALIFORNIA	VULLIET	N 24 17/02/88 \$214,607	A BERRY 88-NL-056	\$105,735 01/05/88 \$214,607
BEAT BY BEAT, NONINVASIVE AND NONOCCLUSIVE MEASUREMENT OF MEAN ARTERIAL PRESSURE 3DMED MEDICAL MANUFACTURING, LTD.	SPAMEK	N 06 22/02/83 \$49,772	D BERRY 88-NL-070	
MECHANISMS OF SYNAPTIC MODIFICATION IN ORGANOTYPIC CULTURES OF CORTICAL NEURAL NETWORKS BROWN UNIVERSITY	ERNER	N 36 26/02/88 \$437,336	BERRY 88-NL-074	
MULTIELECTRODE SIGNAL PROCESSING NEUTOR TECHNOLOGIES, INC	SELZER	N 06 17/03/88 \$67,008	BERRY 88-NL-121	
RESEARCH IN NEUROSCIENCE: DEVELOPMENT OF A CNS INDICANT OF NEURO- BIOLOGICAL FUNCTIONAL STATUS RELATED TO AGENT'S TREATMENT'S DISEASE ESSEX CORPORATION	KENNEDY	N 06 17/03/88 \$50,536	BERRY 88-NL-128	
NONLINEAR SIGNAL EXTRACTION PROCEDURES FOR FUNDAMENTAL NEURAL SCIENCE RESEARCH BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LAWMORE	N 06 17/03/88 \$51,996	BERRY 88-NL-132	
MOLECULAR ASPECTS OF COMPENSATORY NEUROPLASTICITY IN STRESS NEW JERSEY INSTITUTE OF TECHNOLOGY	SILVER	N 36 24/03/88 \$777,335	BERRY 88-NL-155	
THE BACK PROPAGATION TECHNIQUE FOR MODELING CORTICAL COMPUTATION UNIV OF CALIFORNIA	ZIPSEP	N 36 25/03/88 \$442,114	BERRY 88-NL-159	

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
MOLECULAR ECOLOGY OF BACTERIAL POPULATIONS IN ENVIRONMENTAL HAZARDOUS CHEMICAL CONTROL UNIV OF TENNESSEE	SAYLEO	N 36 16/02/88 \$433,986	CERVENY 89-NL-051	
SLOW CYTOMETRIC ANALYSIS OF HEPATOCYTES FROM HDJMAL, PFDA, AND PHADEN/PE-TREATED RATS CALIF STATE UNIVERSITY	MELINDA TAPR	N 12 20/02/88 \$55,000	A CERVENY 89-NL-059	\$55,000 01/05/88 \$55,000
SUPPORT FOR ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY: DIVISION B, IMMUNOLOGY SYMPOSIUM AND SEMINARS UNIV OF ALABAMA	JERRY MCGHEE	N 06 02/03/88 \$10,000	D CERVENY 88-NL-079	
WORKSHOP ON BEHAVIORAL ASPECTS OF NEUROTOXICITY: CRITICAL ISSUES NATIONAL ACADEMY OF SCIENCES	PAVELA	N 06 02/03/88 \$15,000	D CERVENY 88-NL-030	
EASEB CONFERENCE: TRICOTHECENE, BLUE-GREEN ALGAL AND MARINE TOXINS: MECHANISMS, DETECTION AND THERAPY ED. OF AMERICAN SOC. FOR EXPTL BIOLOGY	ROBERT KRAUSS	N 06 02/03/88 \$10,000	D CERVENY 88-NL-031	
1ST INTERNATIONAL SYMPOSIUM ON AIR QUALITY IN CONFINED HABITATS IIT RESEARCH INSTITUTE	HUGH D'NEILL	N 01 14/03/88 \$5,000	D CERVENY 89-NL-034	
AEROBIC MICROBIAL TRANSFORMATION OF AROMATIC HYDROCARBONS AND MIXTURES OF AROMATIC HYDROCARBONS AND HALOGENATED SOLVENTS STANFORD UNIVERSITY	DUNJA GRBIC-SALIC	N 36 14/03/88 \$295,000	CERVENY 89-NL-035	
MOLECULAR PROPERTIES AND FATE OF ORGANIC CHEMICALS UNIV OF WISCONSIN	ANDERS ANDREN	N 36 14/03/88 \$307,270	CERVENY 89-NL-096	
DECOMPOSITION OF POPS BY CONSORTIA OF MICROORGANISMS UNIV OF WISCONSIN	ROBIN HARRIS	N 36 14/03/88 \$297,525	CERVENY 89-NL-087	
THE EFFECT OF HERBS AND SPICES ON THE FATE OF ENVIRONMENTAL		N 36		

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CHEMICALS IN THE BODY OKLAHOMA STATE UNIVERSITY	BURROWS	14/03/88 \$220,829	CERVENY 88-NL-038	
NEUROTOXIC ACTIONS OF PYRETHROID INSECTICIDES				
MEDICAL COLLEGE OF WISCONSIN	WELLS	N 36 14/03/88 \$245,434	CERVENY 88-VL-089	
DEGRADATION OF MIXTURES OF CHLORINATED AROMATIC COMPOUNDS	ROSS	N 36 14/03/88 \$204,343	CERVENY 88-NL-090	
PURDUE UNIVERSITY				
EFFECTS OF SLOW RELEASE OF HYDROCARBONS ON BIORESTORATION AT FUEL SPILL SITES	BEJIENT	N 36 14/03/88 \$454,199	CERVENY 89-NL-091	
RICE UNIVERSITY				
ASSESSMENT OF THE BIOAVAILABILITY AND TOXICITY OF CHEMICALS IN FRESHWATER AND TERRESTRIAL ECOSYSTEMS	GENSEN	N 36 14/03/88 \$193,098	CERVENY 88-NL-092	
NORTHEAST LOUISIANA UNIVERSITY				
NEW MECHANISM OF CYANIDE ANTIDOTISM BY SODIUM VITRITE	WAY	N 50 14/03/88 \$361,010	CERVENY 89-NL-093	
TEXAS A AND M UNIVERSITY				
MECHANISMS OF HALOGENATED HYDROCARBON HEPATOTOXICITY	BULL	N 36 15/03/83 \$297,647	CERVENY 89-NL-094	
WASHINGTON STATE UNIVERSITY				
SIMULATED AQUATIC ECOSYSTEMS FOR PREDICTING CHEMICAL EFFECTS	BRATT	N 36 15/03/83 \$268,794	CERVENY 88-NL-095	
PENNSYLVANIA STATE UNIVERSITY				
BIOENVIRONMENTAL HAZARD OF PESTICIDE COMPLEX MIXTURES IN SOIL	SIMS	N 36 15/03/88 \$296,125	CERVENY 88-NL-096	
UTAH STATE UNIVERSITY				
TOXICANT TOLERANCE EXTRAPOLATION AMONG INTERACTING SPECIES	NEUFELD	N 36 15/03/88 \$190,441	CERVENY 88-NL-097	
UTAH STATE UNIVERSITY				
ENVIRONMENTAL CONTAMINANT PROPERTY ESTIMATION USING ASARS IV 44		N 26		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EXPERT SYSTEM UTAH STATE UNIVERSITY	DOUCETTE WILLIAM	15/03/88 \$295,234	CERVENY 38-NL-038	
ENVIRONMENTAL RATE AND EFFECTS OF CHLORINATED INSECTICIDES MEMPHIS STATE UNIVERSITY	KLAINÉ STEPHEN	N 36 15/03/89 \$283,372	CERVENY 38-NL-039	
INHALANT (SOLUBLED) EFFECTS ON MEMBRANES AND ION CHANNELS PURDUE RESEARCH FOUNDATION	MOORE JAMES	N 12 15/03/88 \$98,477	CERVENY 88-NL-100	
MECHANISMS BY WHICH CHEMICAL ACT AS CYTOTOXINS: USE OF VIVO AND CELL-FREE MODEL SYSTEMS UNIV OF WISCONSIN	BITTAP E. EDWARD	N 36 15/03/89 \$221,817	CERVENY 88-NL-101	
ATTENUATING ORGANIC CONTAMINANT MOBILITY USING ORGANO-CLAYS MICHIGAN STATE UNIVERSITY	BYC STEPHEN	N 36 16/03/88 \$224,950	CERVENY 88-NL-102	
NARCOTIC EFFECTS OF COMPLEX MIXTURES ENVIRO SYSTEMS, INC.	SUGATT RICHARD	N 36 16/03/88 \$331,509	CERVENY 88-NL-103	
CONCENTRATION DEPENDENT BIOACCUMULATION THE ROLE OF NON STEADY STATE DYNAMICS HARBOR BRANCH OCEANOGRAPHIC INST., INC.	LAUGHLIN, JR. ROY	N 36 16/03/88 \$408,568	CERVENY 88-NL-104	
EFFECTS OF SOLUTION COMPOSITION & ADSORPTION KINETICS ON RATE OF ORGANICS IN THE SUBSURFACE UTAH STATE UNIVERSITY	DUPONT ROBERT	N 36 16/03/89 \$300,000	CERVENY 88-NL-105	
BIOAVAILABILITY OF VOLATILE ORGANICS AND OTHER HYDROCARBONS FROM ENVIRONMENTAL MEDIA: INVESTION IN DRINKING WATER GEORGIA UNIV RESEARCH FOUNDATION INC	BRUCKNER JAMES	N 36 16/03/89 \$305,735	CERVENY 88-NL-106	
RATE AND EFFECTS OF CO-METABOLIZED CHLORINATED HYDROCARBON SOLVENTS IN BIODEGRADATION OF SUBSURFACE MATERIALS UNIV OF TENNESSEE	WHITE DAVID	N 36 16/03/89 \$291,000	CERVENY 88-NL-107	
USE OF HUMAN & RAT HEPATOCYTE CULTURES FOR ASSESSING THE METABOLIC		N 36		

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ACTIVATION OF CHEMICALS IN CARCINOGENESIS & TERATOGENESIS ASSAYS PURDUE UNIVERSITY	MONTEITH DAVID	16/03/88 \$139,615	CERVEY 88-NL-108	
ECOLOGICAL CONSTRAINTS AFFECTING MICROORGANISMS DESIGNED TO DEGRADE ORGANIC CHEMICALS IN THE ENVIRONMENT CORNELL UNIVERSITY	ALEXANDER MARTIN	N 36 16/03/88 \$171,774	CERVEY 88-NL-109	
PHTHALATE-INDUCED ADAPTIVE AND TOXIC RESPONSES: IN VIVO AND IN VITRO STUDIES IN THE RAT UNIV OF MISSOURI	SADR MOSTAFA	N 36 16/03/88 \$293,040	CERVEY 88-NL-110	
SPATIAL AND TEMPORAL VARIABILITY IN...TOXICITY AND CHEMICAL COM- POSITION OF EFFLUENTS... UNIV OF ILLINOIS	SCHAEFER DAVID	N 36 16/03/88 \$272,509	CERVEY 88-NL-111	
EFFECTS OF ADSORPTION AND DESORPTION ON THE MICROBIAL TRANSFORMATION OF ENVIRONMENTALLY RELEVANT AIR FORCE CHEMICALS UNIV OF NORTH CAROLINA	PFENDER FREDERIC	N 36 16/03/88 \$295,779	CERVEY 88-NL-112	
BEHAVIOR AND FATE OF CHEMICALS IN SOILS AND GROUNDWATER FLORIDA INTERNATIONAL UNIVERSITY	PARSONS FRANCES	N 36 16/03/88 \$298,659	CERVEY 88-NL-113	
DESORPTION OF HALOGENATED ORGANIC CHEMICALS FROM ADSORBENT SOILS FOR SOIL AND WATER DECONTAMINATION FLORIDA INTERNATIONAL UNIVERSITY	GARRIO-LAGE GLADYS	N 26 16/03/88 \$298,587	CERVEY 88-NL-114	
DEHALOGENATION OF HALOALIPHATIC COMPOUNDS BY REDUCED SULFUR SPECIES STANFORD UNIVERSITY	REINHARD MARTIN	N 36 17/03/88 \$299,777	CERVEY 88-NL-115	
REDUCTIVE DEHALOGENATION OF HALOALIPHATIC HYDROCARBON COMPOUNDS IN MODEL AQUIFER SYSTEMS STANFORD UNIVERSITY	REINHARD MARTIN	N 36 17/03/88 \$299,777	CERVEY 88-NL-116	
THE DEVELOPMENT & APPLICATION OF SHORT COLUMN METHODS FOR MEASUR- ING REACTION RATES IN POROUS MEDIA CLARKSON UNIVERSITY	THAIS THOMAS	N 36 17/03/88 \$306,986	CERVEY 88-NL-117	
PREDICTION OF CARCINOGENIC POTENCY		N 36		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE STAR* DATE TOT AMT
UNIV OF ILLINOIS	ALHO	17/03/88 \$244,344	CERVENY 88-NL-113	
INVESTIGATION OF A METHOD TO ENHANCE DEGRADATION OF JP-4 FUEL IN SOILS				
WESTERN RESEARCH INSTITUTE	JOHN	N 36 17/03/88 \$295,658	CERVENY 89-NL-119	
EVALUATION OF THE EFFICACY OF THE STRESS PROTEIN RESPONSE AS A BIOCHEMICAL WATER QUALITY MONITORING METHOD				
NORTH TEXAS STATE UNIVERSITY	KENNETH	N 24 17/03/88 \$119,445	CERVENY 89-NL-120	
AN AMPEROMETRIC, SENSOR DETECTOR				
UNIVERSAL SENSORS, INC.	GLENN	N 06 17/03/88 \$50,000	CERVENY 88-NL-122	
SOLID-STATE X-RAY IMAGE SCANNER FOR MEASURING BONE MINERAL DENSITY & ASSESSING SKELETAL HEALTH				
PERK. INST. & ENTRY ACCESS CONTRL, INC.	CHARLES	N 14 17/03/88 \$51,747	CERVENY 89-NL-123	
QUANTITATIVE RISK ESTIMATION IN REPRODUCTIVE AND DEVELOPMENTAL TOXICOLOGY				
NATIONAL CTR FOR TOXICOLOGICAL RESEARCH	JAMES	N 24 18/03/88 \$111,739	CERVENY 88-NL-141	
EFFECTS OF POPULATION HETEROGENEITY ON CANCER RISK ESTIMATES				
NATIONAL CTR FOR TOXICOLOGICAL RESEARCH	DAVID	N 24 19/03/88 \$81,090	CERVENY 89-NL-142	
INTERSPECIES EXTRAPOLATION OF CARCINOGENIC RISK				
NATIONAL CTR FOR TOXICOLOGICAL RESEARCH	RALPH	N 24 19/03/88 \$83,731	CERVENY 89-NL-143	
BEHAVIOR OF VAPORS AND PARTICULATE MATERIAL IN THE LOWER ATMOSPHERE				
ARGONNE NATIONAL LABORATORY	MARVIN	N 36 19/03/88 \$307,637	CERVENY 89-NL-144	
EFFICACY OF EXTRACELLULAR HYDROLASE AND OXYGENASE ENZYMES FOR METABOLISM OF AROMATIC COMPOUNDS				
ARGONNE NATIONAL LABORATORY	ROBERT	N 36 19/03/88 \$323,803	CERVENY 89-NL-145	
IN VITRO SYSTEM FOR STUDYING METABOLISM OF ENVIRONMENTAL CHEMICALS				
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TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
IN HUMAN CELLS SRI INTERNATIONAL	GREEN CAROL	19/03/88 \$466,195	CERVENY 88-NL-146	
THE MECHANISMS & EFFECTS OF THE PLANT ACTIVATION OF CHEMICALS IN THE ENVIRONMENT UNIV OF ILLINOIS	PLEWA MICHAEL	N 36 19/03/88 \$278,331	CERVENY 88-NL-147	
PULMONARY EPITHELIAL SURFACE INTERACTIONS OF INHALED CONTAMINANTS UNIVERSITY OF TEXAS	POSTLETHWAIT EDWARD	N 35 19/03/88 \$282,597	CERVENY 88-NL-148	
ARABIC ANIMALS AS SENTINELS FOR REDOX-ACTIVE GENOTOXINS DUKE UNIVERSITY	DIGIULIO RICHARD	N 36 19/03/88 \$220,862	CERVENY 88-NL-149	
A MODEL FOR ASSESSING FRACTIONAL TOXICITY OF COMPLEX MIXTURE CONSTITUENTS IN SALINE DISCHARGES UNIV OF WYOMING	BERGMAN HAROLD	N 36 19/03/88 \$222,480	CERVENY 88-NL-150	
FATE AND EFFECTS OF CHEMICALS IN THE ENVIRONMENT UNIV OF CALIFORNIA	ATKINSON ROGER	N 36 19/03/88 \$353,346	CERVENY 88-NL-151	
DECOMPOSITION OF CHLORINATED SOLVENTS IN GROUNDWATER UTAH STATE UNIVERSITY	SORENSEN DARWIN	N 36 19/03/88 \$300,000	CERVENY 88-NL-152	
THE KEY INVOLVEMENT OF POLY (ADP-RIBOSYLATION) IN DEFENSE AGAINST TOXIC AGENTS: MOLECULAR BIOLOGY STUDIES GEORGETOWN UNIVERSITY	SMULSON MARK	N 36 21/03/88 \$315,178	CERVENY 88-NL-153	
RISK ASSESSMENT IN REPRODUCTIVE AND DEVELOPMENTAL TOXICOLOGY NATIONAL CTR FOR TOXICOLOGICAL RESEARCH	MATTISON OSWALD	N 36 21/03/88 \$1,708,352	CERVENY 88-NL-154	
FATE, INTERACTIONS, AND EFFECTS OF MODEL CHEMICAL MIXTURES UNIV OF SOUTH CAROLINA	OSWALD EDWARD	N 48 21/03/88 \$795,327	CERVENY 88-NL-155	
BIOREMEDIATION USING SELECTED NON-ENGINEERED MICROBES IN SOIL		N 36		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDT AMT
BRACOSTAT LOUISIANA STATE UNIVERSITY	ROY	21/03/88 \$271,434	CERVENY 88-NL-156	
RISK ASSESSMENT USING POLLUTANT TRANSPORT MODELING AND INTERSPECIES EXTRAPOLATION DUKE UNIVERSITY	RECKHOW	N 36 21/03/88 \$253,826	CERVENY 88-NL-157	
CUTANEOUS ABSORPTION AND REACTION OF CONTACT SENSITIZERS UNIV OF PITTSBURGH	THORNE	N 36 21/03/88 \$262,345	CERVENY 88-NL-158	
ROLE OF FREE RADICAL SPECIES OF OXYGEN IN THE TOXICITY OF CHEMICALS USED IN AIR FORCE OPERATIONS AND METHODS OF INTERVENTION UNIV OF MARYLAND	PONNAMPERUMA	N 36 21/03/88 \$328,089	CERVENY 88-NL-159	
XENOBIOTIC KINETICS AND TOXICITY AMONG FISH AND MAMMALS WASHINGTON STATE UNIVERSITY	HAYTON	N 36 21/03/88 \$283,296	CERVENY 88-NL-160	
INFLUENCE OF LIPID COMPOSITION IN AMPLIFYING OR AMELIORATING TOXICANT EFFECTS ON PHYTOPLANKTON UNIV OF MICHIGAN	SCAD	N 36 21/03/88 \$223,169	CERVENY 88-NL-161	
THE LIGHT INDUCED TOXICITY OF COMPLEX PETROLEUM MIXTURES UNIV OF ILLINOIS	SCHAEFFER	N 36 21/03/88 \$288,156	CERVENY 88-NL-162	
HEMOGLOBIN AS A MONITOR TO DETECT EXPOSURE TO HAZARDOUS CHEMICALS OAK RIDGE NATIONAL LAB	SHUGART	N 36 21/03/88 \$256,030	CERVENY 88-NL-163	
A COMMUNITY LEVEL APPROACH TO BIOLOGICAL DEGRADATION OF FRESHWATER CONTAMINANTS BY AQUATIC INVERTEBRATES SYRACUSE RESEARCH CORPORATION	CONERTY	N 36 21/03/88 \$299,963	CERVENY 88-NL-164	
MOLECULAR TOXICOLOGY OF CHROMATIN SAN FRANCISCO STATE UNIVERSITY	KUN	N 60 25/03/88 \$3,317,558	CERVENY 88-NL-170	
EFFECT AND EFFECT OF ORGANIC CHEMICALS IN AEROWATER		N 36		

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TITLE (CONT.)
INSTITUTIONTYPE/MONTHS
RECEIVED
AMOUNT
STATUS
PROGRAM MANAGER
PROPOSAL #
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START DATE
TOT AMT

ARIZONA STATE UNIVERSITY

KENoyer

GALEN

CERVENY
88-NL-17123/03/88
\$285,779HARVARD ASSESSMENT OF CHEMICALS & THEIR MIXTURES IN THE
ENVIRONMENT BY USING...
UNIV OF ILLINOIS

WUNCHEMS

N 36
28/03/88
\$222,509CERVENY
88-NL-172

BIOLOGIC RESPONSES TO MULTIPLE CHEMICAL EXPOSURES

SRI INTERNATIONAL

CHARLES

N 36
23/03/88
\$453,417CERVENY
88-NL-173MICROBIAL TRANSPORT AND RATE IN THE SUBSURFACE: USE OF SPECIALIZED
BACTERIA FOR IN SITU RESTORATION OF CONTAMINATED AQUIFERS
RICE UNIVERSITY

CALVIN

N 36
30/03/88
\$306,711CERVENY
88-NL-174DEVELOPMENT OF AN IMMUNOASSAYS TO DETECT POLYCHLORINATED
HYDROCARBONS
LAWRENCE LIVERMORE LAB (CALIF UNIV)

LARRY

N 36
30/03/88
\$150,000CERVENY
88-NL-175RESEARCH COLLABORATIONS BETWEEN MD AND TEXAS SCIENTISTS
AEROSPACE MEDICAL DIVISION

LARRY

N 12
06/01/88
\$35,000DISMUKES
88-NL-046\$35,000
05/01/89
\$35,000

OPERATIONAL TOURS FOR SET PERSONNEL

AEROSPACE MEDICAL DIVISION

CARL

N 12
07/01/88
\$8,000DISMUKES
88-NL-047\$9,000
07/01/88
\$9,000

KKEV INTERNATIONAL CONGRESS OF PSYCHOLOGY

AMERICAN PSYCHOLOGICAL ASSOCIATION

LEONARD

N 12
20/01/88
\$5,000FREGLY
88-NL-048\$5,000
01/02/88
\$5,000LOCATION INFORMATION AND MECHANISMS OF FEATURE CONJUNCTION IN
OBJECT RECOGNITION
UNIV OF OREGON

STEVEN

N 16
23/01/89
\$94,951FREGLY
88-NL-050

PSYCHOPHYSICAL STUDIES OF VISUAL CORTICAL FUNCTION

SMITH-KETTELWELL EYE RESEARCH FOUNDATION

KEN

N 36
23/01/88
\$524,579FREGLY
88-NL-051

EFFECTS OF ALTITUDE ON METACOGNITION AND ON THE RETRIEVAL OF

A

N 07

\$27,274

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
INFORMATION FROM ALBERT AT MOUNT EVEREST UNIV OF WASHINGTON	NELSON	27/01/88 \$27,274	FREGLY 89-NL-057	01/06/88 \$27,274
EVALUATION OF LIFE SCIENCES RESEARCH PROGRAM COMPENSABLE SOLICITATION	IDENTIFIED	N 36 09/02/88 \$947,342	A FREGLY 89-NL-050	\$91,835 24/09/88 \$947,792
PROXIMITY AND ATTENTION IN THREE DIMENSIONAL SPACE UNIV OF ILLINOIS	ANDERSEN	N 24 16/02/89 \$211,218	FREGLY 89-NL-052	
INTEGRATION OF PICTURES AND DISCOURSE BY MENTAL MODELS UNIV OF WISCONSIN	GLENBERG	N 36 16/02/88 \$347,022	FREGLY 88-NL-053	
CONFOUNDING ESTIMATES OF UNCERTAINTY: PSYCHOLOGICAL ANALYSIS DAK RIDGE NATIONAL LAB	TOWN	N 24 17/02/88 \$505,581	FREGLY 89-NL-057	
COORDINATED NONINVASIVE STUDIES (CNS) PROJECT UNIV OF ARIZONA	LAUTER	R 60 26/02/88 \$2,452,070	FREGLY 88-NL-075	
COMPATIBILITY OF GRAPHIC DISPLAYS FOR JUDGEMENT AND DECISION MAKING DECISION RESEARCH	MACGREGOR	N 24 29/02/88 \$343,707	FREGLY 89-NL-077	
VISUAL ATTENTION AND SHORT-TERM MEMORY NEW YORK UNIVERSITY	SPEERLING	N 36 03/03/85 \$540,352	FREGLY 89-NL-033	
NEUROCOGNITIVE PATTERN ANALYSIS SYSTEM SAM TECHNOLOGY, INC.	MORGAN	N 06 17/03/88 \$49,310	FREGLY 89-NL-127	
PSYCHO-PHYSIOLOGICAL PERFORMANCE FEEDBACK ANALYZER (PFEA) SK DYNAMICS, INC	WATKINS	N 06 17/03/88 \$50,000	FREGLY 89-NL-133	
BREAKING THE LANGUAGE CODE		N 06		

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ALAN S. PIKE	PIKE	ALAN		17/03/88 \$71,280	FREGLY 88-NL-134	
NONLINEAR PREDICTION OF EVOKED RESPONSE FROM PRESTIMULUS EEG DATA						
CHRP CORPORATION	ALTES	RICHARD		N 06 17/03/88 \$49,997	FREGLY 88-NL-135	
OPERATIONAL DECISION TRAINING						
KLEIN ASSOCIATES, INC.	KLEIN	GARY		N 06 17/03/88 \$59,954	FREGLY 88-NL-136	
A KNOWLEDGE STRUCTURE APPROACH TO LEARNING AND TEACHING						
DECISION SCIENCE CONSORTIUM INC	LEDO	JOHN		N 06 18/03/88 \$59,991	FREGLY 88-NL-137	
ONTOLOGICAL INVESTIGATION INTO THE STATUS OF MENTAL MODELS						
SEARCH TECHNOLOGY, INC.	ROUSE	WILLIAM		N 06 18/03/88 \$49,603	FREGLY 88-NL-138	
COGNITIVE STYLE AS A PREDICTOR TO SUCCESSFUL PERFORMANCE						
PROGRESSIVE LEARNING SYSTEMS	BASS	MICHAEL		N 06 18/03/88 \$49,985	FREGLY 88-NL-139	
HANDWRITING ANALYSIS INDICATORS FOR THE DETERMINATION OF INMATE						
COGNITIVE ABILITIES	POGERS	CYNTHIA		N 06 18/03/88 \$49,934	FREGLY 88-NL-140	
IMPERIAL CONS. & ENGR. CO., INC.						
AUDITORY PERCEPTION	COHEN	MARION		N 50 23/01/88 \$285,347	TANGNEY 88-NL-052	
UNIV OF CONNECTICUT						
VISUAL PROCESSING IN TEXTURE SEGREGATION						
UNIV OF UTAH	BECK	JACOB		R 36 23/01/88 \$618,312	TANGNEY 88-NL-053	
REAL AND APPARENT SPATIAL DISTORTIONS IN VISUAL PATTERNS						
STATE UNIVERSITY OF NEW YORK	DAVIS	ELIZABETH		N 50 23/01/88 \$527,515	TANGNEY 88-NL-056	
PERIPHERAL LIMITATIONS ON SPATIAL VISION						
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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOTAL AMT
UNIV OF ROCHESTER	WILLIAMS	03/02/88 \$351,110	TANGNEY 88-NL-058	
INSTITUTE FOR THE STUDY OF HUMAN CAPABILITIES				
INDIANA UNIVERSITY FOUNDATION	WATSON	N 24 03/02/88 \$1,010,000	A TANGNEY 88-NL-059	\$505,000 15/05/88 \$1,005,000
SPATIAL SELECTIVITY IN VISUAL CORPICES				
UNIV OF MASS MEDICAL CENTER	POLLEN	N 50 15/02/88 \$1,232,115	TANGNEY 88-NL-064	
THE VISUAL PERCEPTION OF STRUCTURE FROM MOTION				
BOSTON UNIVERSITY	TOOE	N 36 16/02/88 \$288,087	TANGNEY 88-NL-055	
SIGNAL PROCESSING AND RECOGNITION IN ADAPTIVE NEURAL NETWORKS				
UNIVERSITY OF MARYLAND	SHANNA	N 36 19/02/88 \$425,364	A TANGNEY 88-NL-058	\$103,660 01/05/88 \$331,337
FUNCTIONAL ROLE OF VESTIBULO-CULAR REFLEX ADAPTATION				
SMITH-KETTELWELL EYE RESEARCH FOUNDATION	SHERMAN	N 05 24/02/88 \$692,343	TANGNEY 88-NL-071	
A MODEL OF ALARM CALL LOCALIZATION IN HUMANS				
UNIV OF KANSAS	CODWELL COMJZZIE	N 03 24/02/88 \$189,106	TANGNEY 88-NL-072	
VISUAL PROCESSING OF OBJECT VELOCITY AND ACCELERATION				
SMITH-KETTELWELL EYE RESEARCH FOUNDATION	WCKEE	R 36 25/02/88 \$507,597	TANGNEY 88-NL-073	
COMPLEX AUDITORY SIGNALS				
UNIV OF FLORIDA	GREEN	R 36 29/02/88 \$561,511	TANGNEY 88-NL-076	
USING THE SENTENCE VERIFICATION TECHNIQUES				
UNIV OF MASSACHUSETTS	ROYER	R 12 02/03/88 \$19,193	TANGNEY 88-NL-078	
RECEPTORAL AND NEURAL ACTIVATING				
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UNIV OF NEW HAMPSHIRE	SMITH	03/03/88 \$540,397	TANGNEY 88-NL-082	
DEPENDENCE OF DYNAMIC VISUAL ACTIVITY ON GAZE STABILITY				
MONTEREY TECHNOLOGIES, INC.	HENNESSY	N 06 17/03/88 \$40,002	TANGNEY 88-NL-124	
A COMPUTERIZED TEST BATTERY FOR IDENTIFYING INDIVIDUAL DIFFERENCES IN COGNITIVE ABILITY				
ESSEX CORPORATION	KENNEDY	N 06 17/03/88 \$52,136	TANGNEY 88-NL-125	
VISUAL ACCOMMODATION AS DEPENDENT & INDEPENDENT VARIABLE INSIDE AND OUTSIDE THE COCKPIT				
ESSEX CORPORATION	KENNEDY	N 06 17/03/88 \$51,756	TANGNEY 88-NL-126	
PROCESSING AND ADAPTING UNFAMILIAR VISUAL MOTION INFORMATION				
SMALL BUSINESS VENDOR	COLEZAL	N 06 17/03/88 \$50,000	TANGNEY 88-NL-129	
INFORMATION PROCESSING BY THE PERIPHERAL VISUAL SYSTEM				
SMALL BUSINESS VENDOR	COLEZAL	N 06 17/03/88 \$50,000	TANGNEY 88-NL-130	
EXTRARETINAL NEUROBIOLOGY OF LIGHT				
PAPYRUS SYSTEMS INC.	SIMANDONCK	N 06 17/03/88 \$49,918	TANGNEY 88-NL-131	
HUMAN PATTERN DISCRIMINATION: AN APPROACH THROUGH RANDOM FIGURES				
UNIV OF ALABAMA	LOOP	N 36 24/03/88 \$63,618	TANGNEY 88-NL-156	
PATTERN DISCRIMINATION IN HUMAN VISION				
YALE UNIVERSITY SCHOOL OF MEDICINE	HIRSCH	R 36 24/03/88 \$1,129,635	TANGNEY 88-NL-157	
AUDITORY PROCESSING OF COMPLEX SOUNDS ACROSS FREQUENCY CHANNELS				
UTYOLA UNIVERSITY	CHOPPER	N 36 25/03/88 \$284,333	TANGNEY 88-NL-159	

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NONLINEAR SUBSTRUCTURE AEROMECHANICS ANALYSIS RAYNE JOHNSON	JOHNSON RAYNE	N 06 05/01/88 \$61,493	CROWLEY 88-NM-155	
DESIGN OPTIMIZATION OF SYSTEMS GOVERNED BY PARTIAL DIFFERENTIAL EQ JATIONS DYNAMICS RESEARCH ASSOCIATION INC	ROACHE PATRICK	N 06 05/01/88 \$58,200	CROWLEY 88-NM-156	
STOCHASTIC ADAPTIVE CONTROLLERS: DESIGN AND ANALYSIS JOHNS HOPKINS UNIVERSITY	SOLO VICTOR	N 24 05/01/88 \$105,628	CROWLEY 88-NM-171	
CONTROL AND STABILIZATION OF LINEAR AND NONLINEAR DISTRIBUTED SYST EMS UNIV OF CALIFORNIA	LEVAN N	R 24 06/01/88 \$217,325	CROWLEY 88-NM-192	
ONLY II SUPPORT FOR OTHER 2304/43 INSTRUMENTS AIR FORCE WEAPONS LAB	GURNETTE HOWARD	N 08 21/01/88 \$10,000	A CROWLEY 88-NM-193	\$10,000 01/02/89 \$10,000
PRACTICAL METHODS FOR ROBUST MULTIVARIABLE CONTROL UNIV OF SOUTHERN CALIFORNIA	SABONOV MICHAEL	R 12 27/01/88 \$125,763	A CROWLEY 88-NM-190	\$90,701 15/07/89 \$90,701
ADAPTIVE & NONLINEAR CONTROL ARIZONA STATE UNIVERSITY	BYRNES CHRISTOPHER	N 36 27/01/88 \$234,652	A CROWLEY 88-NM-191	\$72,502 15/07/89 \$234,652
MATHEMATICAL TECHNIQUES FOR SYSTEM REALIZATION AND IDENTIFICATION UNIV OF FLORIDA	KALMAN R.E.	R 12 27/01/88 \$84,567	A CROWLEY 88-NM-198	\$54,677 15/05/89 \$54,677
COMPUTATIONAL ALGORITHMS FOR IDENTIFICATION WITH INPUT OPTIMIZATION UNIV OF ARKANSAS	BREWER DENNIS	N 24 27/01/88 \$115,137	CROWLEY 88-NM-206	
RESEARCH ON ALGORITHMS FOR PERSONAL MULTIPROCESSORS SCIENTIFIC SYSTEMS INC.	LESTER BRUCE	N 06 23/01/88 \$59,519	CROWLEY 88-NM-214	

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PRIOR KNOWLEDGE IN IMAGE PROCESSING SCIENTIFIC SYSTEMS INC.	GUSTAFSON	N 06 29/01/88 \$59,499	CROWLEY 89-NM-215	
THE APPLICATION OF ADVANCED ALGEBRA TECHNIQUES TO SUPERCOMPUTERS ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 24 29/01/89 \$49,742	CROWLEY 88-NM-216	
ERROR DETECTION, DIAGNOSIS, AND CORRECTION ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/88 \$49,742	CROWLEY 88-NM-217	
THE DYNAMIC ANALOG CODING OF MODERN ALGEBRA PROBLEMS ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/88 \$49,742	CROWLEY 88-NM-218	
CYBERTALK ADVANCED TECHNOLOGY LABORATORIES	JENNINGS	N 06 29/01/89 \$49,742	CROWLEY 89-NM-219	
A GENERALIZED APPROACH TO THE APPLICATION OF PARALLEL PROCESSING TO PROBLEMS OF MODERN ALGEBRA ADVANCED TECHNOLOGY LABORATORIES	MUHL JR.	N 06 29/01/88 \$49,742	CROWLEY 89-NM-220	
AN APPROACH TO COMPUTER ARCHITECTURE FOR PARALLEL PROCESSING ADVANCED TECHNOLOGY LABORATORIES	MUHL JR	N 06 29/01/88 \$49,742	CROWLEY 89-NM-221	
INTEGRATING NUMERICAL SOFTWARE LIBRARIES WITH AN INTERACTIVE SCIENTIFIC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	N 06 29/01/89 \$50,020	CROWLEY 88-NM-222	
DEVELOPING AN OUT-OF-CORE IMPLEMENTATION OF A CONJUGATE GRADIENT METHOD SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	N 06 29/01/89 \$50,005	CROWLEY 88-NM-223	
EMPLOYING SPARSE SOLUTION TECHNOLOGY WITHIN AN INTERACTIVE SCIENTIFIC		N 06		

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EXC COMPUTING ENVIRONMENT SCIENTIFIC COMPUTING ASSOCIATES INC	FOULSER	29/01/88 \$50,020	CROWLEY 89-NM-224	
FAST ALGORITHMS FOR CONTROL PROCESS ROBOTICS				
SPACE TECH CORPORATION	ANDREWS	N 06 29/01/88 \$49,750	CROWLEY 88-NM-225	
MATHEMATICAL MODELLING OF MATERIAL DAMPING IN LARGE SPACE STRUCTURES				
ES SPARTA INC.	LEISIEURE	N 06 29/01/88 \$49,995	CROWLEY 88-NM-226	
ADAPTIVE NETWORK TECHNOLOGY FOR COUPLING SYSTEM EFFECTOR CONTROL				
D SYSTEM SENSOR INPUTS SYSTRAN CORPORATION	CAMPBELL	N 06 29/01/88 \$53,141	CROWLEY 88-NM-227	
SYNTHETIC CALCULUS INDUCTIVE LEARNING LANGUAGES				
INT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 \$51,757	CROWLEY 88-NM-228	
AUTOMATIC FINITE ELEMENT MESH GENERATION				
COMPUTER PERFECTION UNLIMITED (CPU)	WEISINGER	N 06 29/01/88 \$49,995	CROWLEY 88-NM-229	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
SM SYSTEMS & RESEARCH CORPORATION	MERSH	N 06 29/01/88 \$49,970	CROWLEY 88-NM-230	
REAL-TIME EDGE/FEATURE DETECTION THROUGH STOCHASTIC OPTIMIZATION				
F IMAGING SYSTEMS INFORMATION & CONTROL SYSTEMS INC.	HALYO	N 06 29/01/88 \$55,955	CROWLEY 88-NM-231	
SYNTHETIC CALCULUS OPTIMIZATION RESEARCH ENVIRONMENT				
INT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 \$51,757	CROWLEY 88-NM-232	
DECOMPOSITION OF LARGE SCALE MATHEMATICAL PROGRAMMING PROBLEMS THROUGH THE APPLICATION OF THE INTERACTION BALANCE PRINCIPLE				
SYSTEMS APPLICATIONS INC.	BICHU	N 06 29/01/88 \$49,512	CROWLEY 88-NM-233	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES				

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PLEX SYSTEMS INC.	COLEMAN	29/01/88 \$53,200	CROWLEY 88-NM-234	
RELATIVE ENTROPY APPLIED TO IMAGE PROCESSING				
ENTROPIC SPEECH INC.	SHORE	N 06 29/01/88 \$49,945	CROWLEY 88-NM-235	
NUMERICAL SOLUTION OF DIFFERENTIAL EQUATIONS				
GENERAL ANALYTICS CORPORATION	SARAFYAN	N 06 29/01/88 \$50,000	CROWLEY 88-NM-236	
ARTIFICIAL NEURAL SYSTEM FOR OPTIMAL MODELLING/CONTROL				
INC, USC (HECHT-NIELSEN NEUROCOMPUTER)	PALMER	N 06 29/01/88 \$51,275	CROWLEY 88-NM-237	
IMPROVEMENTS IN AUTOMATIC PARALLELIZATION TECHNOLOGY				
NEW JERSEY ADVANCED TECHNOLOGY	KLAPPHOLZ	N 06 29/01/88 \$46,972	CROWLEY 89-NM-238	
SYNTHETIC CALCULUS ALGORITHMIC LEARNING ENGINES				
INIT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 \$51,767	CROWLEY 88-NM-239	
SYNTHETIC CALCULUS ARRAY MODE DIFFERENTIAL EMULATION				
INIT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 \$51,767	CROWLEY 89-NM-240	
LEARNING LAWS ARTIFICIAL NEURAL NETWORKS				
MARTINGALE RESEARCH CORPORATION	DAMES	N 06 29/01/88 \$55,621	CROWLEY 88-NM-241	
PROPAGATIONAL WAVE EQUATION IN HILBERT SPACE				
MARTINGALE RESEARCH CORPORATION	DAMES	N 06 29/01/88 \$53,277	CROWLEY 88-NM-242	
MATHEMATICAL MODELS OF COMPLEX LASER BEAM FOCUSING				
JOSEPH TECHNOLOGY CORPORATION	OLIVER	N 06 29/01/88 \$56,445	CROWLEY 88-NM-243	
RE-ENTRY VEHICLE STATE ESTIMATION USING QUADRATIC FILTERING TECHNI				
		N 06		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
RUE TECHNOLOGY SYSTEMS, INC.	FARJOT	29/01/88 \$50,000	CROWLEY 88-NM-244	
FRAMES		N 06 29/01/88 \$50,000	CROWLEY 88-NM-245	
TELEPHOS ASSOCIATED	KRITIKOS			
SYNTHETIC CALCULUS ADVANCED NEURAL NETWORK				
INT'L META SYSTEMS INC.	THAMES	N 06 29/01/88 \$51,757	CROWLEY 88-NM-246	
SYSTEM IDENTIFICATION AND FILTERING OF NONLINEAR CONTROLLED MARKOV PROCESSES BY CANONICAL VARIATE ANALYSIS BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	LARIMORE	N 06 29/01/88 \$50,720	CROWLEY 88-NM-247	
QUATERNION ALGORITHMS FOR ROTATION PROBLEMS IN SPACE				
MAJCAN SYSTEMS	SINGH	N 06 29/01/88 \$49,858	CROWLEY 88-NM-248	
DIGITALLY BASED WORKSTATION FOR PERFORMING HIGHLY ACCURATE MEASURE MENTS ON LARGE ANALOG FILM IMAGERY VERCEL CORPORATION	LEBERI	N 06 29/01/88 \$49,950	CROWLEY 88-NM-249	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
COMPUTER & INFORMATION SCIENCES, INC.	VIDE	N 05 29/01/88 \$49,061	CROWLEY 88-NM-250	
RESEARCH IN COMPUTER SCIENCE				
SOETRON, INC	GENGON	N 06 01/02/88 \$47,476	CROWLEY 88-NM-251	
A NEW EXPERT SYSTEM-BASED METHODOLOGY FOR REUSABLE SOFTWARE				
CONCEPT TECHNOLOGY	BESSEL	N 06 01/02/88 \$49,390	CROWLEY 88-NM-252	
SIMULATION METHODS FOR PARALLEL DISTRIBUTED PROCESSOR NETWORKS				
MARTINGALE RESEARCH CORPORATION	DAMES	N 06 01/03/88 \$54,920	CROWLEY 88-NM-253	
INNOVATIVE STORAGE METHODS AND ITERATIVE SOLUTION TECHNIQUES FOR				
		N 06		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSED #	INITIATE START DATE TERM DATE
FINITE ELEMENT METHOD MAINSTREAM ENGINEERING CORPORATION	BUCKMAN	01/02/86 \$49,308	CROWLEY 88-NM-254	
PROBLEM ORIENTED CONSTRAINT DIRECTED SIMULATION SYNTHESIS				
WYSSON (CHELSEA) CHU ZEMANY	ZEMANY	N 06 01/02/88 \$42,495	CROWLEY 88-NM-255	
PAUL	PAUL			
A KNOW-CODE BASED EXPERT SYSTEM FOR SOFTWARE ENGINEERING	YEE	N 06 01/02/88 \$50,770	CROWLEY 88-NM-256	
HY BUSINESS INC.	D.			
DEMONSTRATION OF ARRAY PIPELINE				
TUA RESEARCH INC.	CLARKE	N 06 01/02/88 \$49,827	CROWLEY 88-NM-257	
NONLINEAR CONTROL OF HIGH ANGLE ATTACK FLIGHT DYNAMICS				
BUSINESS & TECHNOLOGICAL SYSTEMS, INC.	CARROLL	N 06 01/02/88 \$51,607	CROWLEY 88-NM-258	
JAMES	JAMES			
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCES: CALCULATION OF THE P ROBABILITY OF UNDETECTED ERROR FOR CERTAIN ERROR DETECTION CODES VITERBI	ANDREW	N 06 01/02/88 \$49,505	CROWLEY 88-NM-259	
NEURAL NETWORK RESEARCH FOR TRACK-WHILE-SCAN RADAR				
RADC PERCEPTRONICS, INC.	KHALSA	N 06 01/02/88 \$49,626	CROWLEY 88-NM-260	
DHARMA SINGH	DHARMA SINGH			
FINITE MEMORY TRAINING AND FILTERING ALGORITHM				
RADC PERCEPTRONICS, INC.	BANNETT	N 06 01/02/88 \$49,672	CROWLEY 88-NM-261	
ROGER	ROGER			
SOFTWARE REUSE MANAGER				
CALIFORNIA ADVANCED INTEGRATION	KAHN	N 06 01/02/88 \$49,994	CROWLEY 88-NM-262	
MARTHA	MARTHA			
A COMPUTER SYSTEM TO IMPROVE THE EFFICIENCY AND TO OPTIMIZE ADA SC SCIENTIFIC AND ENGINEERING CODE APPLIED INNOVATIONS, INC.	DAVIDSON	N 06 01/02/88 \$43,566	CROWLEY 88-NM-263	
JOSEPH	JOSEPH			
DEVELOPMENT OF NEURAL NETWORK SUPERCOMPUTER FOR IMAGE REPRESENTATI		N 06		

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ON AND FEATURE EXTRACTION IMAGE CONVERSION DEVICES	BROOKES JOHN	01/02/88 \$50,000	CROWLEY 88-NM-265	
INVESTIGATION OF ERDEE MMW ALGORITHMS FOR MULTIBODY DYNAMICS SIMULATIONS PHOTON RESEARCH ASSOCIATES INC.	KEAT JAMES	N 06 12/02/88 \$49,615	CROWLEY 88-NM-279	
PERFORMANCE ANALYSIS FOR THE RECOGNITION OF TARGETS CALIFORNIA ADVANCED INTEGRATION	WEBSTER DAVID	N 06 12/02/88 \$54,152	CROWLEY 88-NM-230	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE IMAGE PROCESSING FOR CW FM RADAR SSDD RESEARCH CORPORATION	KLIKIEWICZ WOJCIECH	N 05 12/02/88 \$43,155	CROWLEY 88-NM-231	
VLSI/ASIC ARCHITECTURE FOR NONLINEAR EQUATION SOLVER IN REAL-TIME MILITARY APPLICATIONS SERVICE RESEARCH INSTITUTE	WANG CHENG	N 06 12/02/88 \$57,693	CROWLEY 88-NM-292	
AN INTEGRATED CONCEPT FOR SCHEDULING TRANSPORTATION NETWORKS COMPUTER AIDED PLAN & SCHEDULE INC.	LOFGREN CHRISTOPHER	N 06 12/02/88 \$50,000	CROWLEY 88-NM-233	
ROBUST AND ADAPTIVE CONTROL OF DYNAMICAL SYSTEMS INTEGRATED SYSTEMS, INC.	KOSUT ROBERT	N 06 12/02/88 \$79,205	CROWLEY 88-NM-234	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE NELSON ASSOCIATES	NELSON NORMAN	N 06 12/02/88 \$22,500	CROWLEY 88-NM-235	
AN INTELLIGENT MATHEMATICAL MODELLING SYSTEM-MATHMODEL COMPUTER COMMAND & CONTROL COMPANY	LOCK EVAN	N 06 12/02/88 \$50,000	CROWLEY 88-NM-236	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE: A UNIFIED STATISTICAL METHODOLOGY FOR READING ABOUT DAMAGES DECISION SCIENCE CORPORATION INC	LASKEY KATHRYN	N 06 12/02/88 \$41,581	CROWLEY 88-NM-237	
ADAPTIVE KNOWLEDGE-BASED NETWORK		N 05		

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ADVANCED DECISION SYSTEMS	GERARD	12/02/88 \$49,977	CROWLEY 88-NM-238	
A KNOWLEDGE-BASED SYSTEM FOR DYNAMIC MODEL VERIFICATION				
INTELLIGENT SYSTEMS INTEGRATION INC.	ROSS	N 06 12/02/89 \$57,356	CROWLEY 88-NM-239	
MICROCOMPUTER EXPERT SYSTEM				
RAMP CORPORATION	CARR	N 12 17/02/88 \$256,272	CROWLEY 88-NM-230	
RESEARCH IN MATHEMATICS AND COMPUTER SCIENCE				
VISTA RESEARCH CORPORATION	CALDWELL	N 06 19/02/88 \$50,000	CROWLEY 88-NM-231	
DESIGN AND IMPLEMENTATION OF HIGH PRECISION AND HIGH PERFORMANCE P PARALLEL SOFTWARE AND HARDWARE - PHASE II				
ARITHMETIKA, INC.	CHUDNOVSKY	N 12 25/02/88 \$500,000	CROWLEY 88-NM-236	
INCREASING THE MARGIN OF STABILITY OF ARBITRARILY FINITE MODES OF FLEXIBLE LARGE SPACE STRUCTURES WITH DAMPING				
UNIV OF VIRGINIA	IRENA	R 12 25/02/88 \$134,596	CROWLEY 88-NM-299	\$116,500 01/03/88 \$116,500
PARAMETER IDENTIFICATION ON TIME DELAY SYSTEMS				
BROWN UNIVERSITY	PEARSON	N 36 25/02/88 \$97,000	CROWLEY 88-NM-301	
SINGULAR AND BAND-BAND STOCHASTIC CONTROL				
CARNEGIE-MELLON UNIVERSITY	SHREVE	R 36 26/02/89 \$242,660	CROWLEY 88-NM-302	
ON OBSERVABILITY OF SYSTEMS WITH COMPLICATED DYNAMICS				
ARIZONA STATE UNIVERSITY	C. TAYLOR	N 24 25/02/88 \$92,755	CROWLEY 88-NM-303	
STABILITY AND CONTROL OF NONLINEAR SYSTEMS				
TEXAS TECH UNIVERSITY	MARTIN	N 36 26/02/88 \$416,334	CROWLEY 88-NM-304	
UJUS: OPTIMAL PROJECTION FOR UNCERTAIN SYSTEMS				
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HARRIS CORPORATION	BERNSTEIN	29/02/89 \$289,910	CROWLEY 89-NM-315	
ROBUST CONTROL OF NONLINEAR FLEXIBLE SPACE MANIPULATORS				
UNIV OF SOUTHERN CALIFORNIA	SKOWRONSKI	N 36 29/02/88 \$190,571	CROWLEY 89-NM-316	
RESEARCH ADVANCES IN AIR FORCE SYSTEMS				
UNIV OF CALIFORNIA	LEONDES	N 36 29/02/88 \$176,683	CROWLEY 88-NM-317	
NONLINEAR FEEDBACK-CONTROL SYSTEMS				
UNIV OF FLORIDA	HAMMER	N 50 29/02/88 \$210,359	CROWLEY 88-NM-318	
MODEL BASED FAILURE DETECTION AND ISOLATION: DESIGN FOR ISOLABILITY AND ROBUSTNESS				
GEORGE MASON UNIVERSITY	SEPTLER	N 36 17/03/89 \$252,339	CROWLEY 89-NM-338	
FUNDAMENTAL STUDIES IN CONTROL OF FLEXIBLE ARTICULATED STRUCTURES				
STANFORD UNIVERSITY	CAYNOR	N 24 17/03/88 \$1,118,000	CROWLEY 88-NM-340	
1988 IEEE INTERNATIONAL SYMPOSIUM ON INFORMATION THEORY				
INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERING	COSTELLO JR.	N 12 17/03/88 \$10,000	CROWLEY 88-NM-342	
LINEAR CONTROLLER DESIGN VIA INFINITE DIMENSIONAL CONVEX OPTIMIZATION & SPECIAL PURPOSE ARCHITECTURES FOR LINEAR CONTROLLERS				
STANFORD UNIVERSITY	BOYD	N 24 18/03/88 \$299,458	CROWLEY 89-NM-343	
ANALYTICAL, COMPUTATIONAL AND EXPERIMENTAL STUDIES OF DISTRIBUTED PARAMETER AND NONLINEAR CONTROL SYSTEMS				
VIRGINIA POLYTECHNIC INSTITUTE & STATE UNIVERSITY	RUSSELL	N 36 22/03/88 \$352,692	CROWLEY 89-NM-354	
ROBUST STABILIZATION OF SYSTEMS WITH TIME DELAYS				
WAYNE STATE UNIVERSITY	CLIPSTON	N 24 25/03/88 \$121,520	CROWLEY 89-NM-359	
HEMODYNAMIC METHODS IN CONTROL SYSTEM ANALYSIS AND DESIGN				
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HARRIS CORPORATION	RICHTER	25/03/88 \$204,057	CROWLEY 89-NM-351	
HOMOLOGY METHODS IN CONTROL SYSTEM DESIGN AND ANALYSIS		N 36		
VIRGINIA POLYTECHNIC INST & STATE UNIV	WATSON	25/03/88 \$191,710	CROWLEY 88-NM-352	
ALGEBRAICALLY SPECIFIED COMBINATORIAL OBJECTS		N 35		
UNIV OF MASSACHUSETTS	ROSENBERG	05/01/88 \$271,972	MILLER 88-NM-179	
ALGORITHM FOR SEMI-INFINITE OPTIMIZATION PROBLEMS ARISING IN ENGINEERING		N 26		
UNIVERSITY OF MARYLAND	PANIER	06/01/88 \$215,508	MILLER 88-NM-191	
INTEGRATING INTERIOR POINT ALGORITHMS AND THE SIMPLEX METHOD		N 24		
PRINCETON UNIVERSITY	IRVIN	27/01/88 \$222,955	MILLER 89-NM-196	
COMPLEMENTARITY PROBLEMS		N 24		
UNIV OF MARYLAND BALTIMORE COUNTY	GUDDAPPA	27/01/88 \$61,548	MILLER 88-NM-199	
PARALLEL AND ROBUST OPTIMIZATION		N 36		
GEORGE WASHINGTON UNIVERSITY	WASH	27/01/89 \$198,325	MILLER 89-NM-202	
FAST ALGORITHMS FOR STRUCTURAL OPTIMIZATION, LEAST-SQUARES AND RELATED COMPUTATIONS		R 24		\$82,335
NORTH CAROLINA STATE UNIVERSITY	PLEMMONS	27/01/88 \$147,679	MILLER 88-NM-207	01/07/88 \$147,679
VULNERABILITY PROPERTIES OF CERTAIN CLASSES OF GRAPHS		N 36		
UNIV OF IDAHO	STURCKLE	09/02/88 \$209,433	MILLER 88-NM-273	
MULTIPLE RESOURCE-CONSTRAINED MULTIPROJECT SCHEDULING ON PARALLEL COMPUTERS		N 09		
SIMULATION RESEARCH	MEJTSKY	12/02/88 \$47,127	MILLER 88-NM-278	
CONTROL THEORY FOR DISTRIBUTED PARAMETER SYSTEMS		N 07	A	\$46,955

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AEROSPACE COMPANY	ELMM	22/02/88 \$79,999	MILLER 89-NM-232	01/04/89 \$46,955
REPORT CORRECTING CODES AND RELATED DESIGNS				
UNIV OF ILLINOIS	PLESS	N 24 22/02/88 \$109,764	A MILLER 89-NM-234	\$49,999 15/06/89 \$109,744
ALTERNATE PROBLEM FORMULATIONS AND THE SOLUTION OF CONSTRAINED NON LINEAR PROGRAMMING PROBLEMS	JOHNSON	N 24 26/02/88 \$100,709	MILLER 88-NM-305	
WANDERBILT UNIVERSITY				
CYCLES AND PATHS IN GRAPHS - RESEARCH IN GRAPH THEORY				
WEST VIRGINIA UNIVERSITY	ZHANG	N 12 26/02/88 \$45,781	MILLER 89-NM-306	
ASYMPTOTIC METHODS IN COMBINATORIAL THEORY	CANFIELD	N 24 26/02/88 \$46,928	A MILLER 88-NM-307	\$10,000 01/03/89 \$10,000
UNIV OF GEORGIA				
NONLINEAR STOCHASTIC OPTIMIZATION: NUMERICAL PROCEDURES AND STATISTICAL THEORY	WETS	0 24 26/02/88 \$112,371	A MILLER 88-NM-308	\$55,000 01/03/89 \$112,371
UNIV OF CALIFORNIA	ROGER J. B.			
A RUTGERS PROJECT IN DISCRETE APPLIED MATHEMATICS				
RUTGERS - THE STATE UNIVERSITY	FRED S. ROBERTS	R 36 29/02/88 \$1,143,636	MILLER 88-NM-321	
THE DEVELOPMENT OF EFFICIENT OPTIMIZATION ALGORITHMS FOR PROBLEMS W ITH VARIABLE UPPER BOUNDS				
NORTHERN ILLINOIS UNIVERSITY	CHAKRAVARTI	N 24 29/02/88 \$61,998	MILLER 89-NM-323	
NUMERICAL TECHNIQUES IN CONTROL AND OPTIMIZATION				
PENNSYLVANIA STATE UNIVERSITY	HAGER	N 03 29/02/88 \$40,000	A MILLER 89-NM-324	\$21,000 15/03/89 \$21,000
PARALLEL COMPUTATION OF FULL AIRCRAFT STRUCTURAL OPTIMIZATION				
UNIV OF MISSOURI	EL-SAYED	N 24 29/02/89 \$117,935	MILLER 89-NM-326	
COILING FOR SPREAD-SPECTRUM CHANNELS IN THE PRESENCE OF JAMMING				
		R 24	A	\$74,901

TYPE TITLE (CONT'D) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PERSONAL #	DATE START DATE END DATE
ALCANTARA INSTITUTE OF TECHNOLOGY	ROBERT	23/02/88 \$153,617	MILLER 88-NM-327	01/07/88 \$74,901
THE UNIVERSITY OF CALIFORNIA	IRVING	R 12 15/03/88 \$44,405	MILLER 88-NM-327	
LINEAR PROGRAMMING TOOLS FOR INTEGER PROGRAMMING	REED			
STATE UNIVERSITY	ROBERT	R 36 17/03/88 \$260,791	MILLER 88-NM-339	
THE SPACE-TIME COMPLEXITY OF THE ALGORITHMS IN COMBINATORIAL GROUP THEORY AND RELATED MATTERS	ROBERT	N 24 21/03/88 \$337,931	MILLER 88-NM-352	
RESEARCH IN CONSTRAINED OPTIMIZATION	JOHN	R 12 24/03/88 \$100,000	A MILLER 88-NM-357	\$100,000 01/09/88 \$100,000
STATE UNIVERSITY				
METHODS OF OPTIMIZATION UNDER UNCERTAINTY	JOHN JR.	N 24 23/03/88 \$126,395	MILLER 88-NM-366	
UNIV OF WASHINGTON	RALPH			
LINEAR VIBRATIONS AND CONTINUUM MECHANICS	ROCKWELL	R 24 05/01/88 \$97,773	A NACHMAN 88-NM-158	\$41,775 15/07/88 \$97,773
CALIFORNIA INSTITUTE OF TECHNOLOGY	COHEN			
SYMMETRY AND GLOBAL BIFURCATION IN NONLINEAR SOLID MECHANICS	DOVALO			
CORNELL UNIVERSITY	HEALEY	R 24 05/01/88 \$51,496	A NACHMAN 88-NM-174	\$43,304 01/05/89 \$43,304
NUMERICAL LINEAR ALGEBRA: DIGITAL SIGNAL PROCESSING AND PARALLEL A LGORITHMS	TIMOTHY			
STANFORD UNIVERSITY	GENE	N 12 05/01/88 \$5,000	NACHMAN 88-NM-180	
ADAPTIVE SPECTRAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS	GENE			
UNIV OF CONNECTICUT	JOSEPH	N 36 06/01/88 \$177,954	NACHMAN 88-NM-183	
UNIV OF CONNECTICUT				
UNIV OF ALABAMA SPECIAL YEAR IN SANTA BARBARA		N 12		

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UNIV OF CALIFORNIA	THOMPSON	06/01/83 \$97,326	NACHMAN 89-NM-134	
A FOURIER APPROACH TO THE ANALYSIS AND DESIGN OF NUMERICAL METHODS FOR DIFFERENTIAL EQUATIONS UNIV OF CALIFORNIA	CHAN T.	N 36 06/01/88 \$266,473	NACHMAN 33-NM-135	
CHAOTIC BEHAVIOR IN QUANTUM DYNAMICS CENTRO DE CULTURA SCIENTIFICA A VOLTA	CASATI GIULIO	N 12 22/01/88 \$14,900	NACHMAN 88-NM-139	
FAST ALGORITHMS FOR PARTIAL DIFFERENTIAL EQUATIONS SPRINGER-NATIONAL LABORATORY	PASCIAK JOSEPH	N 36 27/01/88 \$533,700	NACHMAN 89-NM-192	
DYNAMICAL SYSTEMS METHODS IN THE STUDY OF ONE-DIMENSIONAL WAVE MOT ION UNIVERSITY OF MARYLAND	JONES CHRISTOPHER	N 36 27/01/88 \$138,425	NACHMAN 88-NM-134	
CHADS IN CLASSICAL NONLINEAR FIELDS UNIV OF NEW HAMPSHIRE	SHEPARD HARVEY	N 36 27/01/88 \$187,774	A NACHMAN 88-NM-201	\$21,951 01/07/83 \$21,951
ITERATIVE ALGORITHMS FOR THE NUMERICAL SOLUTION OF THE MATRIX EQUA TION FAIR HAKE WRIGHT STATE UNIVERSITY	MILLER DAVID	N 36 27/01/88 \$97,353	NACHMAN 88-NM-204	
PROBLEMS IN REACTIVE FLOWS AND FLOWS OF VARIABLE VISCOSITY FLUIDS NORTHWESTERN UNIVERSITY	MATALON M.	N 36 27/01/88 \$149,235	NACHMAN 83-NM-235	
NONDESTRUCTIVE EVALUATION AND CHARACTERIZATION OF MEDIA WITH MICRO STRUCTURE UNIV OF DELAWARE	SANTOSA FADIL	N 36 27/01/88 \$150,128	A NACHMAN 88-NM-208	\$22,500 01/05/88 \$22,500
INNOVATIVELY PARALLEL COMPUTATIONAL FLUID DYNAMICS UNIVERSITY OF MICHIGAN	CALAHAN DONALD	N 17 29/01/88 \$154,955	A NACHMAN 82-NM-211	\$55,772 01/05/88 \$129,772
MODELING AND ANALYSIS OF THE CIRCULOVASCULAR SYSTEM		N 30		

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UNIV OF UTAH	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TRAVELLING WAVES IN EXCITABLE MEDIA	KREMER	29/01/88 \$233,451	NACHMAN 88-NM-212	
VIRGINIA POLYTECHNIC INST & STATE UNIV	TYSON	N 36 29/01/88 \$63,465	NACHMAN 88-NM-213	
THE EFFECT OF SYMMETRY ON THE HYDRODYNAMIC STABILITY OF AND BIFURC ATION FROM PLANAR SHEAR FLOWS	BRIDGES	N 12 03/02/88 \$35,604	A NACHMAN 88-NM-256	\$38,558 01/03/88 \$38,558
ARCONBERG POLYTECHNIC INSTITUTE	THOMAS			
USE OF THE CRAY-2 FOR SCIENTIFIC COMPUTATION	FOX	N 12 03/02/88 \$255,500	NACHMAN 88-NM-270	
CALIFORNIA INSTITUTE OF TECHNOLOGY	GEDFREY			
ANALYTICAL AND ALGORITHMIC STUDIES FOR NONLINEAR SYSTEMS OF MULTIP LE SUBTYPES	JEROME	N 24 09/02/88 \$55,413	NACHMAN 88-NM-274	
NORTHWESTERN UNIVERSITY	JOSEPH			
MULTIDIMENSIONAL DYNAMIC PROBLEMS IN PLASTICITY	SCHAEFER	N 36 09/02/88 \$643,578	NACHMAN 88-NM-276	
DUKE UNIVERSITY	DAVID			
SUMNER SCHOOL ON COMPLEX SYSTEMS	STEIN	N 12 12/02/88 \$35,000	NACHMAN 88-NM-277	
SANTA FE INSTITUTE	DAVID			
COMPUTATIONAL METHODS FOR PROBLEMS IN FLUID DYNAMICS	CHOU	N 36 22/02/88 \$5,330	A NACHMAN 88-NM-293	\$5,330 01/05/88 \$11,171
BOWLING GREEN UNIVERSITY	SO-HSIANG			
THEORETICAL BIOLOGY AND MATHEMATICS	CHOW			
BORDEN RESEARCH CONFERENCES INC	HANS	N 12 25/02/88 \$15,347	NACHMAN 88-NM-295	
GRADUATE STUDENT AND POSTDOCTORAL FELLOWSHIP PROGRAM IN NONLINEAR DIFFERENTIAL EQUATIONS	ANTMAN	N 36 25/02/88 \$421,795	NACHMAN 88-NM-297	
UNIV OF MARYLAND	STUART			
FOURTH COPPER MOUNTAIN MULTISCALE CONFERENCE		N 12		

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UNIV OF COLORADO AT DENVER	MAVIDEL	26/02/88 \$39,376	NACHMAN 89-NM-298	
MATERIAL INSTABILITY IN SOLIDS				\$20,385
SOUTHERN ILLINOIS UNIVERSITY	SCOTT	N 17 29/02/88 \$20,335	A NACHMAN 88-NM-312	01/06/88 \$20,385
ANALOG COMPUTATION IN NEURAL SYSTEMS: ARCHITECTURES AND COMPLEXITY				
PRINCETON UNIVERSITY	DICKINSON	N 12 29/02/88 \$66,986	A NACHMAN 88-NM-313	\$66,986 01/05/88 \$139,206
INTERDISCIPLINARY RESEARCH ON VISCOELASTICITY AND RHEOLOGY				
UNIV OF WISCONSIN	NOHEL	N 12 29/02/88 \$40,500	A NACHMAN 89-NM-314	\$40,500 01/05/88 \$40,500
A MATHEMATICAL AND NUMERICAL STUDY OF NONLINEAR WAVES ARISING IN A ONE-DIMENSIONAL MODEL OF A FLUIDIZED BED	GANSER	N 36 29/02/88 \$272,950	D NACHMAN 88-NM-325	
WEST VIRGINIA UNIVERSITY	GARY			
PROBLEMS IN NONLINEAR CONTINUUM DYNAMICS				
UNIV OF WISCONSIN	SLEMRUD	R 12 01/03/88 \$76,387	NACHMAN 89-NM-329	
MATHEMATICAL TOOLS FOR IMAGE RECONSTRUCTION				
UNIV OF CALIFORNIA	GRUNBAUM	N 36 01/03/88 \$277,731	A NACHMAN 89-NM-331	\$95,650 15/07/88 \$305,548
PULSE PROPAGATION IN TEMPORALLY DISPERSIVE MEDIA				
WAVE-PRO	KRIESSMAN	N 12 09/03/88 \$25,000	A NACHMAN 89-NM-334	\$25,000 01/05/88 \$25,000
APPLICATIONS OF MULTIPARAMETER BIFURCATIONS OF PERIOD FUNCTIONS				
UNIV OF MISSOURI	CHICONE	N 24 18/03/88 \$223,778	NACHMAN 89-NM-344	
PROBLEMS IN FLAME-FLOW INTERACTION				
UNIV OF NEW YORK CITY	SIVASHITSKY	N 36 18/03/88 \$253,391	NACHMAN 89-NM-347	
NUMERICAL AND ANALYTICAL STUDIES OF NONLINEAR WAVE PROPAGATION				
		N 36		

TITLE (CONT.) ABSTRACT	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
STATE UNIVERSITY OF NEW YORK	HASSTROM	21/03/88 \$115,622	NACHMAN 89-NM-349	
INSTABILITY AND TRANSITION IN COMPRESSIBLE BOUNDARY LAYERS				
EUROPEAN OFFICE OF AERO RECH AND DEVELOP	HALL	N 36 22/03/88 \$131,097	NACHMAN 89-NM-355	
ASYMPTOTIC SOLUTION OF INVERSE PROBLEMS USING FOURIER INTEGRAL OPE RATOR METHODOLOGY	HAGIN	N 15 23/03/88 \$113,450	NACHMAN 83-NM-356	
COLORADO SCHOOL OF MINES				
SOME MATHEMATICAL PROBLEMS IN CONTINUUM MECHANICS				
CARNEGIE-MELLON UNIVERSITY	HRUSA	N 12 25/03/88 \$129,305	A NACHMAN 89-NM-358	\$40,473 30/03/88 \$129,805
NONLINEAR SYSTEMS WITH PARAMETERS: RECURSIVE LYAPUNOV FUNCTIONS				
OREGON STATE UNIVERSITY	OLAS	N 24 25/03/88 \$98,432	NACHMAN 89-NM-360	
INVESTIGATIONS OF EQUILIBRIA, LATTICES, AND CHAOTIC DYNAMICS OF 2-D HAMILTONIAN POINT VORTICES				
UNIV OF CALIFORNIA	KADTKE	N 24 29/03/88 \$196,528	NACHMAN 89-NM-353	
CONFERENCE ON NONLINEAR PHENOMENA IN FLUID MECHANICS				
PENNSYLVANIA STATE UNIVERSITY	SONA	N 12 29/03/88 \$24,550	NACHMAN 89-NM-355	
ADVANCED EXPLICIT MARCHING SCHEMES FOR THE EULER AND NAVIER-STOKES EQUATIONS				
UNIV OF MICHIGAN	LEER	N 24 30/03/88 \$233,208	NACHMAN 89-NM-357	
OPTIMISTIC METHODS IN DISTRIBUTED COMPUTATION				
RICE UNIVERSITY	IZWENBERGEL	N 36 05/01/88 \$359,334	WAKSMAN 89-NM-175	
THE DESIGN OF A FLUID-STRUCTURE ENVIRONMENT FOR DATABASE APPLICATIONS				
EUROPEAN ATLANTIC UNIVERSITY	BERNARDI	N 24 05/01/88 \$194,205	WAKSMAN 89-NM-176	
NETWORK MODULES FOR SOUND, TEXTURE AND PERCEPTUAL GROUPING IN EAR				
		N 12	A	\$57,389

TITLE	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TITLE (CONT.) INSTITUTION				
BY VISION UNIV OF ILLINOIS	AHUJA	05/01/88 \$65,000	WAKSMAN 88-NM-178	01/07/88 \$57,389
INVESTIGATIONS IN NONMONOTONIC REASONING				
ARTIFICIAL INTELLIGENCE RESEARCH INSTITUTE	BROWN	N 36 27/01/88 \$341,550	WAKSMAN 88-NM-209	
PARALLEL COMPUTING OF NUMERICAL FLOW FIELDS				
TEMPLE UNIVERSITY SCHOOL OF MEDICINE	LIN	N 24 27/01/88 \$285,962	WAKSMAN 88-NM-210	
EVALUATION AND EXTRACTION OF FEATURES OF DIGITIZED PICTURES				
UNIV OF NEBRASKA	PRABHU	N 36 03/02/89 \$176,932	WAKSMAN 88-NM-257	
NONMONOTONIC TEMPORAL REASONING				
STANFORD UNIVERSITY	YODAV	N 24 03/02/88 \$586,196	WAKSMAN 88-NM-259	
RESEARCH OF PROGRAMMING LANGUAGES AND SOFTWARE ENGINEERING				
UNIVERSITY OF MARYLAND	ESIL	N 11 04/02/88 \$374,520	WAKSMAN 88-NM-271	\$223,781 01/05/88 \$223,781
TEXTURE PERCEPTION AND SHAPE FROM TEXTURE				
UNIV OF ILLINOIS	AHUJA	N 12 04/02/89 \$58,399	WAKSMAN 88-NM-272	\$58,399 15/05/88 \$59,399
MACHINE TRANSLATABLE DICTIONARIES AS TOOLS AND RESOURCES FOR NATURAL LANGUAGE PROCESSING				
NEW MEXICO STATE UNIVERSITY	WILKS	N 24 26/02/83 \$386,247	WAKSMAN 88-NM-300	
HARDWARE AND SOFTWARE INSTRUMENTATION FOR PERFORMANCE MONITORING A ND APPLICATION SUPPORT FOR PARTITIONABLE SIMO/MIMO PARALLEL COMPUT PURDUE RESEARCH FOUNDATION				
	MARINESCU	N 36 26/02/88 \$387,024	WAKSMAN 88-NM-309	
PARALLEL ARCHITECTURES DESIGN, VALIDATION, IMPLEMENTATION				
UNIV OF MASSACHUSETTS	ROSENBERG	N 36 23/02/88 \$554,235	WAKSMAN 88-NM-320	
SCENE SEGMENTATION AND REASONING UNDER UNCERTAINTY				
		N 36	A	\$109,474

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
UNIV OF PENNSYLVANIA	BAUCKY	01/03/88 \$109,474	WAKSMAN 88-NM-329	01/05/88 \$359,253
THE DEVELOPMENT OF STRUCTURE FOR THE REPRESENTATION AND MANIPULATION OF SOPHISTICATED KNOWLEDGE IN INTELLIGENT SYSTEMS YAGER YONK COLLEGE		N 24 01/03/88 \$31,381	A WAKSMAN 89-NM-330	\$31,391 01/07/88 \$63,862
COLLABORATIVE PLANNING HARVARD UNIVERSITY	GROSS	N 12 07/03/88 \$28,019	A WAKSMAN 89-NM-333	\$28,019 01/07/88 \$28,020
SOFTWARE TOOLS FOR THE DESIGN AND TUNING OF PARALLEL SUPERCOMPUTER APPLICATIONS INDIANA UNIVERSITY FOUNDATION	GANNON	N 24 21/03/88 \$465,435	WAKSMAN 89-NM-350	
DISTRIBUTED PLANNING AND PROBLEM SOLVING SYSTEMS ARIZONA STATE UNIVERSITY	FINDLER	N 36 21/03/88 \$473,233	WAKSMAN 89-NM-351	
MULTIVARIATE PROBLEMS OF STATISTICS AND INFORMATION THEORY COLORADO STATE UNIVERSITY	SRIVASTAVA	N 12 05/01/88 \$57,500	A WOODRUFF 89-NM-157	\$57,500 15/04/88 \$57,500
STATISTICAL METHODOLOGIES FOR NON GAUSSIAN NOISY ENVIRONMENTS BOSTON UNIVERSITY	. TACQU	N 36 05/01/88 \$296,511	WOODRUFF 89-NM-159	
DESIGN AND ANALYSIS OF COMPUTATIONAL EXPERIMENTS DAR RIDGE NATIONAL LAB	MITCHELL	N 06 05/01/88 \$75,000	WOODRUFF 89-NM-170	
STOCHASTIC MODEL IN RELIABILITY UNIV OF CALIFORNIA	GROSS	R 12 05/01/88 \$64,177	A WOODRUFF 88-NM-172	\$51,000 15/05/88 \$51,000
RESEARCH ON RA ADAPTED ROBUST CONFIDENCE PROCEDURES UNIV OF PENNSYLVANIA	MINTZ	N 24 05/01/88 \$199,544	WOODRUFF 89-NM-173	
INFINITE DIMENSIONAL STOCHASTIC INTEGRATION, TIGHTNESS AND APPLICATIONS		N 26		

TITLE TITLE (CONT.) SUBSTANTIATION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
TIDM UNIV OF FLORIDA	BRICK	05/01/88 \$334,525	WOODRUFF 89-NM-177	
LIMITS FOR SEQUENTIAL TESTING, CROSSING TIMES AND MARK SUMS				
UNIVERSITY OF MICHIGAN	KEENER	N 36 06/01/88 \$159,124	WOODRUFF 88-NM-187	
REGULAR VARIATION IN SEVERAL VARIABLES				
ALBION COLLEGE	MEERSCHAERT	N 36 27/01/88 \$30,756	WOODRUFF 88-NM-193	
RELIABILITY ASSESSMENT FOR ONE-SHOT DEVICES BASED ON REPEATED SAMPLING				
UNIV OF MISSOURI	BAIN	R 12 27/01/88 \$37,472	WOODRUFF 88-NM-200	
THE NUMERICAL EVALUATION OF BAYES ESTIMATES IN RELIABILITY MODELS				
STATE UNIVERSITY OF NEW YORK	LO	N 24 03/02/88 \$195,157	WOODRUFF 88-NM-258	
THEORY AND APPLICATION OF RANDOM FIELDS				
TECHNION-ISRAEL INST OF TECHNOLOGY	ADLER	R 36 09/02/88 \$119,000	WOODRUFF 88-NM-275	
HIGHER ORDER CROSSINGS				
UNIV OF MARYLAND	KEDEN	R 36 29/02/88 \$182,950	WOODRUFF 88-NM-310	
SOME STRUCTURAL ASPECTS OF RANDOM FIELDS				
UNIV OF CINCINNATI	ERYC	N 24 29/02/88 \$37,206	WOODRUFF 88-NM-311	
FAST SIGNAL PROCESSING ALGORITHMS WITH APPLICATIONS TO PASSIVE SURVEILLANCE AND IDENTIFICATION				
UNIV OF MINNESOTA	TEWFIK	N 36 29/02/88 \$293,991	WOODRUFF 88-NM-319	
RESEARCH IN STATISTICAL INFERENCE				
TEXAS A AND M RESEARCH FOUNDATION	CARROLL	N 24 29/02/88 \$136,235	WOODRUFF 88-NM-322	
SUPERCOMPUTING IN EXPERIMENTAL DESIGN				
		N 09	A	\$30,000

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UNIV OF ILLINOIS	SACKS	04/03/88 \$21,000	WOJDRUFF 83-NM-322	15/03/88 \$30,000
SYSTEM RELIABILITY ANALYSIS AND INFERENCE				
UNIV OF CALIFORNIA	BARLOW	N 12 03/03/88 \$106,000	A WOJDRUFF 89-NM-335	\$106,000 15/05/88 \$106,000
BASIC RESEARCH IN RELIABILITY FOR REAL SYSTEMS				
UNIV OF SOUTHERN CALIFORNIA (ELEC ENG)	LI	N 24 14/03/88 \$104,000	A WOJDRUFF 83-NM-336	\$51,500 15/07/88 \$104,000
STUDIES IN STATISTICAL SIGNAL PROCESSING				
STANFORD UNIVERSITY	KAILATH	R 24 17/03/88 \$355,378	A WOJDRUFF 89-NM-341	\$89,330 01/08/88 \$182,930
SOME PROBLEMS IN NONPARAMETRIC REGRESSION				
SOUTHERN METHODIST UNIVERSITY	EUBANK	N 24 18/03/88 \$103,012	WOJDRUFF 89-NM-345	
SELF-COHERENCE-EXPLOITING ALGORITHMS FOR SIGNAL DETECTION, PARAMET ER ESTIMATION AND EXTRACTION				
UNIV OF CALIFORNIA	GARDNER	N 36 13/03/88 \$506,219	WOJDRUFF 88-NM-346	
WORKSHOP ON HIGHER-ORDER SPECTRAL ANALYSIS				
UNIV OF SOUTHERN CALIFORNIA	MENDEL	N 12 18/03/88 \$19,430	WOJDRUFF 88-NM-348	
DYNAMIC PROGRAMMING FOR OPTIMAL DETECTION, CLASSIFICATION, ESTIMAT ION AND SPECTRAL ANALYSIS				
UNIV OF RHODE ISLAND	KAY	N 36 21/03/88 \$210,795	WOJDRUFF 83-NM-353	
ALGEBRAIC ASPECTS OF NETWORK RELIABILITY PROBLEMS				
COLLEGE OF WILLIAM AND MARY	SHIEP	N 24 31/03/88 \$111,993	WOJDRUFF 83-NM-358	
RELIABILITY ASSESSMENT FOR SYSTEMS SUBJECT TO MAINTENANCE & REPAIR				
CITY COLLEGE - CUNY	BROWN	R 12 31/03/89 \$35,657	WOJDRUFF 89-NM-359	
RELIABILITY AND STATISTICS APPLIED TO THE THEORY OF ALGORITHMS				
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PRINCETON UNIVERSITY

INVESTIGATOR

STEELE

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TYPE/MONTHS
RECEIVED
AMOUNT

31/03/83
\$211,620

STATUS
PROGRAM MANAGED
PROPOSAL #

4000RUE
88-NM-370

INITIATE
START DATE
TOT AMT

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UNDERGRADUATE RESEARCH ASSISTANTSHIP PROGRAM				
TEXAS TECH UNIVERSITY	ISHIMARA	N 12 27/01/88 \$20,500	BARKER 83-NP-040	
A TWO-STREAM PLASMA ELECTRON MICROWAVE SOURCE FOR HIGH POWER MILLIMETER WAVE GENERATION				
APPLIED MICROWAVE PLASMA CONCEPTS	GARETH	N 05 05/02/88 \$49,820	BARKER 88-VP-049	
NOVEL ELECTRON-BEAM DRIVEN DEVICES FOR THE GENERATION OF AMPLIFICATION OF MILLIMETER-WAVE RADIATION				
ERT CORPORATION	PHELPS	N 06 05/02/88 \$50,486	BARKER 89-NP-051	
DEVELOPMENT OF MMWAVE GYROTRON				
CENTER FOR REMOTE SENSING	GANGULY	N 06 05/02/88 \$62,480	BARKER 83-NP-052	
INVESTIGATION OF STIMULATED EMISSION STRIPLINE TRAVELING WAVE AMPL IFIER FOR MILLIMETER WAVE AMPLIFICATION				
STAP MICROWAVE	PHILLIPS	N 06 16/02/88 \$49,748	BARKER 88-VP-082	
HIGH GAIN, METAL GRATING FREE ELECTRON LASER				
IRVINE SCIENCE ASSOCIATES	WESSEL	N 05 16/02/88 \$49,993	BARKER 88-NP-083	
MILLIMETER-WAVE/MICROWAVE FREE-ELECTRON POWER TUBE				
FELTECH	ELIAS	N 06 16/02/88 \$57,330	BARKER 88-VP-084	
DEVELOPMENT OF THE AXIAL INJECTION CATHODIC MASER (AXICOM)				
BURKE TECHNOLOGIES INC.	BURKE	N 06 16/02/88 \$49,996	BARKER 88-NP-085	
ULTRA-SHORT PULSES OF MILLIMETER WAVE RADIATION VIA MODELOCKED QUA SI-OPTICAL GYROTRON				
PHYSICAL SCIENCES INC.	READ	N 06 18/02/88 \$49,997	BARKER 88-VP-091	
EFFICIENT ENERGY STORAGE & CONVERSION USING ADIABATIC COMPRESSION OF RELATIVISTIC-ELECTRON PLASMAS				
APPLIED MICROWAVE PLASMA CONCEPTS	GARETH	R 12 07/03/88 \$83,500	BARKER 88-VP-100	

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AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
DIRECTORATE OF PHYSICAL AND GEOPHYSICAL SCIENCES

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TST AMT
A SYSTEM FOR INTERACTING WITH BASIC PLASMA PHYSICS COMPUTATIONS JAYCOR	GLADD	R 12 17/03/88 \$100,488	A BARKER 88-NP-106	\$26,488 01/07/88 \$100,488
A JOINT INDUSTRY-UNIVERSITY PROGRAM FOR COMPUTATIONAL PLASMA RESEARCH MISSION RESEARCH CORP	GOPLEN	N 12 18/03/88 \$99,551	A BARKER 88-NP-107	\$25,000 01/07/88 \$99,551
JORDON RESEARCH CONFERENCE ON ELECTRON SPECTROSCOPY JORDON RESEARCH CONFERENCES INC	ALEXANDER	N 06 25/01/88 \$10,000	KELLEY 88-NP-038	
SPECTRALLY RESOLVED DETECTION OF RAPIDLY CHANGING IR SIGNATURES (PC-054A) PHYSICAL SCIENCES INC	KRECH	N 06 05/02/88 \$49,993	KELLEY 88-NP-055	
1988 JORDON CONFERENCE ON PLASMA CHEMISTRY JORDON RESEARCH CONFERENCES INC	ALAN	N 12 29/02/88 \$6,500	A KELLEY 88-NP-090	\$6,500 01/07/88 \$6,500
EXPERIMENTS WITH TRAPPED NEUTRAL ATOMS MASSACHUSETTS INSTITUTE OF TECHNOLOGY	DAVID	N 12 02/03/88 \$55,000	A KELLEY 88-NP-097	\$55,000 01/04/88 \$55,000
PHOTOCHEMISTRY OF EXCITED ATOMIC STATES AND RADIATIVE RECOMBI- NATION CALCULATIONS UNIV OF TOLEDO	C.	N 24 07/03/88 \$49,323	KELLEY 88-NP-098	
TERMOLECULAR ASSOCIATION OF IONS IN GASES GEORGIA TECH RESEARCH CORPORATION	M	N 12 15/03/88 \$99,311	A KELLEY 88-NP-105	\$99,311 01/07/88 \$99,311
FORTY-FIRST ANNUAL COLD-ION ELECTRONICS CONFERENCE UNIV OF MINNESOTA	DOUGLAS	N 12 18/03/88 \$7,500	A KELLEY 88-NP-108	\$7,500 01/07/88 \$7,500
INTERSECTION STUDIES IN REMOTE TRAPS		N 32	A	\$239,054

TITLE (CONT.) ABSTRACT	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TDY AMT
HARVARD UNIVERSITY	GARRIELSE	27/01/88 \$764,347	PRINCE 88-NP-042	01/03/89 \$764,347
NOVEL TECHNIQUES IN SEISMIC DETECTION				
POTOMAC SYNERGETIC INC. (PSI)	CORCORAN	N 06 06/02/88 \$49,548	PRINCE 89-NP-053	
INNOVATION THEORETICAL DISCRIMINANT FOR SEISMIC DETECTION AND DIFFERENTIATION	STONE	N 06 09/02/88 \$50,576	PRINCE 88-NP-055	
MISSION RESEARCH CORP				
ULTRASENSITIVE STM-BASED SENSOR FOR DETECTING SEISMIC SIGNALS	WEST	N 06 11/02/88 \$49,596	PRINCE 88-NP-057	
QUANISCAN, INC.	PAUL			
MULTIVARIATE SIGNAL ANALYSIS NOVEL TECHNIQUES IN SEISMIC DETECTION	KON	N 06 11/02/88 \$49,935	PRINCE 88-NP-058	
TOR GEOPHYSICS CORPORATION	JOSEPH			
INVESTIGATION OF IMPROVED PIEZOELECTRIC SEISMIC TRANSDUCERS	WILCOXON	N 06 11/02/88 \$49,981	PRINCE 89-NP-059	
WILCOXON RESEARCH	W.			
DEVELOPMENT OF FIBER OPTIC SEISMOMETER SYSTEM	CARDONE	N 06 11/02/88 \$50,000	PRINCE 88-NP-070	
EDGEWISE SENSOR PRODUCTS				
NOVEL TECHNIQUES IN SEISMIC DETECTION	PAL	N 06 11/02/88 \$49,700	PRINCE 89-NP-071	
PAL CONSULTANTS, INC.	NICK			
SATELLITE-BORNE SEISMOMETER (SBS) FOR ESTIMATION OF YIELDS OF UNDERGROUND NUCLEAR TESTS	SQUIRE	N 06 11/02/88 \$49,981	PRINCE 88-NP-072	
EAGLE RESEARCH GROUP, INC.	ROBERT			
THE USE OF NONLINEAR SYSTEM IDENTIFICATION TECHNIQUES FOR IMPROVED SEISMIC DETECTION	SHEP	N 06 11/02/88 \$49,945	PRINCE 89-NP-073	
MULTISPEC CORPORATION	DAVID			
CORRELATION BETWEEN GROUND TONOSPHERIC DISTURBANCES AND		N 06		

TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
EARTHQUAKES APPLIED CRYSTAL ENGINEERING, INC.	KEYSER EDDIE	11/02/88 \$49,306	PRINCE 89-NP-074	
SEISMIC DETECTION BY USE OF SUPERCONDUCTIVE MAGNETIC LEVITATION				
LEEM ASSOCIATES, INC.	CRAVENS DENNIS	N 06 16/02/88 \$49,980	PRINCE 89-NP-086	
EXTREMELY SENSITIVE, RUBBED, AND DIRECTIONAL SEISMOMETER				
OPTIMA SYSTEMS, INC.	SECHIAN LEON	N 05 18/02/88 \$50,000	PRINCE 89-NP-037	
DIAGNOSTICS OF MAGNETIC SUBSTORMS USING SATELLITE OBSERVATIONS OF MAGNETIC PULSATIONS SOUTHWEST RESEARCH INSTITUTE	LIN CHIN	N 36 27/01/88 \$438,922	RADOSKI 89-NP-041	
GEOMAGNETIC PULSATIONS OF THE EARTH'S MAGNETOSPHERE				
ELECTRO MAGNETIC APPLICATIONS INC	YU POH	N 05 05/02/88 \$50,064	RADOSKI 89-NP-050	
MAGNETIC PULSATIONS AS DIAGNOSTIC OF EARTH'S MAGNETOSPHERE				
SM SYSTEMS & RESEARCH CORPORATION	SOMAYAJULU Y.	N 06 05/02/88 \$48,935	RADOSKI 89-NP-053	
MODELING OF THE GLOBAL IONOSPHERIC				
ENRICO LEVI, INC.	WANG MICHAEL	N 05 05/02/89 \$49,783	RADOSKI 89-NP-054	
PROBING COSMIC INVERSE SOURCES: A COMPUTER MODELING APPROACH				
RENSSELAER POLYTECHNIC INSTITUTE	LEUNG CHUN	N 36 09/02/88 \$483,558	RADOSKI 89-NP-055	
GEOMAGNETIC PULSATIONS AS DIAGNOSTIC TOOLS OF THE EARTH'S MAGNETOSPHERE AEROTECH SYSTEMS CORPORATION	PRASAD J.	N 06 16/02/89 \$49,555	RADOSKI 89-NP-079	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETO- SPHERE TECHNIC RESEARCH LABORATORIES	RAUSCHER E.	N 06 16/02/88 \$49,555	RADOSKI 89-NP-090	
GEOMAGNETIC PULSATIONS AS A DIAGNOSTIC OF THE EARTH'S FIELD:		N 06		

TITLE INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
CORRELATION OF LAND BASED SOLAR DIAGNOSTICS WITH AGL-MAGNET DATA TOPIC TECHNOLOGY	GRAY	16/02/83 \$48,000	RADOSKI 33-NP-001	
FEASIBILITY STUDY OF LASEDS SATELLITE EXPERIMENT				
AIR FORCE GEOPHYSICS LABORATORY	MILLER	N 12 12/01/88 \$35,000	A SCHLOSSBER 88-NP-034	\$35,000 01/10/88 \$35,000
NONLINEAR OPTICAL PHASE CONJUGATION STUDIES				
CALIFORNIA INSTITUTE OF TECHNOLOGY	YARIV	N 24 14/01/89 \$220,000	A SCHLOSSBER 88-NP-035	\$110,000 01/01/88 \$220,000
ORGANIZATION OF THE TOPICAL MEETINGS ON NONLINEAR OPTICAL PROPERTIES OF MATERIALS				
OPTICAL SOCIETY OF AMERICA	QUINN	N 12 29/01/88 \$15,000	A SCHLOSSBER 88-NP-043	\$15,000 01/05/88 \$15,000
ORGANIZATION OF THE FOURTH TOPICAL MEETING ON SHORT WAVELENGTH COHERENT RADIATION: GENERATION AND APPLICATIONS				
OPTICAL SOCIETY OF AMERICA	QUINN	N 12 29/01/88 \$10,000	A SCHLOSSBER 88-NP-044	\$10,000 01/05/88 \$10,000
PICONSECOND OSCILLOSCOPE				
AERODYNE RESEARCH INC	PUTNAM	N 05 29/01/88 \$49,969	SCHLOSSBER 88-NP-046	\$187,817 01/08/88 \$1,030,288
SYNTHETIC NONLINEAR MEDIA				
STANFORD UNIVERSITY	BYER	N 36 02/02/83 \$1,046,288	A SCHLOSSBER 88-NP-047	
ULTRA-SENSITIVE ELEMENT ANALYSIS BY COMBINING LASER ATOMIZATION WITH RESONANCE IONIZATION SPECTROSCOPY				
ATOM SCIENCES, INC.	THOMARD	N 06 09/02/88 \$56,655	SCHLOSSBER 88-NP-058	
OPTICAL SCATTER INSTRUMENT FOR HIGH PERFORMANCE OPTICS				
DEACON RESEARCH	G. DEACON	N 06 08/02/88 \$54,985	SCHLOSSBER 88-NP-059	
DESIGN AND APPLICATION OF AN OPTICAL SCATTEROMETER FOR SURFACE DIAGNOSTICS				
SANDIA LABORATORIES	JACOBSON	N 06 09/02/88 \$57,522	SCHLOSSBER 88-NP-060	
(TEM)DD CONTINUOUS-WAVE ULTRAVIOLET LASER				
		N 05		

TITLE (CONT.) INCORPORATION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
SANDIA LABORATORIES	YU	08/02/88 \$56,554	SCHLOSSER 88-VP-051	
MICROWAVE CHARACTERIZATION OF NONLINEAR PROPERTIES OF MATERIALS				
LARGO SCIENTIFIC INC.	BLOCH	N 06 08/02/88 \$49,731	SCHLOSSER 88-NP-052	
CRYSTAL LASER BEAM MONITOR				
KUD & ASSOCIATES	MCCANN	N 06 16/02/88 \$50,000	SCHLOSSER 88-VP-075	
A MODULAR, NON-CONTACT ROUNDNESS MEASUREMENT SYSTEM: CONTRL SYSTEM & SENSOR CAPABILITIES LASER METRIC SYSTEMS, INC.	PAPURT	N 06 16/02/88 \$57,225	SCHLOSSER 88-VP-076	
ADVANCED PULSED NARROWBAND LASER				
LASER TECHNOLOGY ASSOCIATES	BROWN	N 06 16/02/88 \$49,975	SCHLOSSER 88-VP-077	
SEDMAGNETIC PULSATIIONS AS A DIAGNOSTIC OF THE EARTH'S MAGNETOSPHERE				
SYNETICS CORP	LAQUADRA	N 06 16/02/88 \$50,166	SCHLOSSER 88-VP-078	
SINGLE CRYSTAL FIBERS OF MOD: LINER				
LASER SERVICES CORPORATION	SCHLECHT	N 06 18/02/88 \$49,339	A SCHLOSSER 88-VP-088	\$49,838 01/07/88 \$49,838
RESEARCH INSTRUMENTATION (RIFSDOL) FOR FREE SPACE OPTICAL DATA LIN KS				
ENERGY OPTICS, INC.	COX	N 06 18/02/88 \$52,107	SCHLOSSER 88-VP-039	
DEVELOPMENT OF A PORTABLE AUTOMATED DIRECTIONAL REFLECTOMETER				
SURFACE OPTICS CORPORATION	MEU	N 06 18/02/88 \$49,956	SCHLOSSER 88-NP-090	
UV/XUV FEL STORAGE RING AND LINAC				
DUKE UNIVERSITY	MADEY	N 36 18/02/88 \$7,219,534	A SCHLOSSER 88-NP-092	\$300,000 01/07/88 \$3,500,000
COAST-GW EXCIMER LASER				
		N 06		

TITLE (CONT.) INSTITUTION	INVESTIGATOR	TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TGT AMT
POTOMAC PHOTONICS INC.	CHRISTENSEN	24/02/88 \$48,936	SCHLOSSER 89-NP-093	
BASIC MECHANISMS IN EFFICIENT SOLID-STATE LASER MATERIALS				
BOSTON UNIVERSITY	BARTOLO	N 12 24/02/88 \$110,678	D SCHLOSSER 89-NP-094	
RESEARCH ON ADVANCED SOURCE DEVELOPMENT AND APPLICATIONS				
DUKE UNIVERSITY	MADEY	N 12 24/02/88 \$500,000	A SCHLOSSER 89-NP-095	\$210,000 01/03/88 \$500,000
VACUUM-ULTRAVIOLET FREE-ELECTRON LASER				
UNIV OF CALIFORNIA	BRAU	N 24 07/03/89 \$1,499,348	SCHLOSSER 88-NP-099	
SUBPICOSSECOND ELECTRONIC SAMPLING AND DISTRIBUTED NONLINEAR ELECTRONICS				
STANFORD UNIVERSITY	SLOOM	N 36 11/03/88 \$564,237	A SCHLOSSER 89-NP-101	\$60,000 01/03/88 \$564,237
STATE ROCHESTER CONFERENCE ON COHERENCE AND QUANTUM OPTICS				
UNIV OF ROCHESTER	EBERLY	N 36 11/03/88 \$44,330	SCHLOSSER 89-NP-102	
PARTIAL SUPPORT OF THE FOURTH INTERNATIONAL LASER SCIENCE CONFERENCE				
UNIV OF IOWA	STWALLEY	N 12 11/03/89 \$10,000	SCHLOSSER 89-NP-103	
STIMULATED SCATTERING AND PHASE CONJUGATION IN PHOTOREFRACTIVE MATERIALS				
UNIV OF SOUTHERN CALIFORNIA	FEINBERG	N 36 14/03/88 \$644,045	A SCHLOSSER 89-NP-104	\$86,000 01/01/88 \$644,045
CM ULTRAVIOLET LASER EXCITED WITH AN ELECTRON BEAM				
COLORADO STATE UNIVERSITY	POCCA	P 12 23/03/88 \$58,920	A SCHLOSSER 89-NP-110	\$35,529 01/07/88 \$35,529
DEVELOPMENT OF PHOTO-DEPOSITED DIAMOND FILMS				
DEACON RESEARCH	DIXIEE	N 06 30/03/88 \$49,358	A SCHLOSSER 89-NP-112	\$49,358 01/07/88 \$49,358
INNOVATIVE SCIENCES TECHNICAL EXPERIMENTATION CENTER				
		N 09	A	\$500,000

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TITLE
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INSTITUTION

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START DATE
TOT AMT

INVESTIGATOR

EASTERN SPACE & MISSILE CENTER

KENNEDY

MICK

01/01/88
\$500,000

APPLICATION OF NONLINEAR OPTICAL TECHNIQUES TO COUPLING AND
PHASING OF MULTIPLE LASER DEVICES
AIR FORCE INSTITUTE OF TECHNOLOGY

ROH

JOHN

\$50,000
01/02/88
\$50,000

OPTICALLY CONTROLLED SOLID STATE REPETITIVE OPENING SWITCHES: HIGH
TO SUPERCONDUCTORS AND DIAMOND AND GRAPHITE
UNIV OF MARYLAND

LEE

CHI

\$54,121
01/06/88
\$489,500

SOLID INNOVATIVE SCIENCE AND TECHNOLOGY: PARTICLE BEAMS

VOGEL

HERBERT

\$50,000
04/02/88

83-NP-048

GRAND CHALLENGES TO COMPUTATIONAL SCIENCE

LAWRENCE LIVERMORE LAB (CALIF UNIV)

NOWAK

PAUL

\$10,000
08/02/88

83-NP-056

MAGNETIC DEFLECTION OSCILLATOR, A HIGH POWER DEVICE

MOENY

W.

\$59,424
03/02/88

89-NP-057

DISSOCIATIVE RECOMBINATION: THEORY, EXPERIMENT AND APPLICATION

UNIV OF WESTERN ONTARIO

MITCHELL

BRIAN

\$10,500
05/02/88

83-NP-054

\$10,500
01/05/88
\$10,500

FLUCTUATIONS IN H SOURCES

LDS ALAMOS SCIENTIFIC LAB (DOE)

GERWIN

RICHARD

\$150,000
18/03/88

88-NP-109

THEORETICAL STUDIES OF THE ELECTRONICS AND RESONANCE STRUCTURE OF
ATOMIC AND MOLECULAR NEGATIVE IONS
UNITED TECHNOLOGIES RESEARCH CENTER

WICKELS

M.

\$343,982
28/03/88

83-NP-111